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OM nucleic - nucleic search, using sw model

Run on: September 1, 2005, 00:42:12 ; Search time 529 Seconds
(without alignments)

10306.378 Million cell updates/sec

Title: US-09-964-277-20

Perfect score: 3332

Sequence: 1 gagagaagagagaataa.....ataaagatgaactggtttc 3332

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

- 1: /cgn2_6/prodata/1/ina/5A COMB.seq.*
- 2: /cgn2_6/prodata/1/ina/5B COMB.seq.*
- 3: /cgn2_6/prodata/1/ina/6A COMB.seq.*
- 4: /cgn2_6/prodata/1/ina/6B COMB.seq.*
- 5: /cgn2_6/prodata/1/ina/PCTUS COMB.seq.*
- 6: /cgn2_6/prodata/1/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2950	88.5	3544	4	US-09-816-494-1
2	1660	49.8	1998	4	US-09-816-494-3
3	294.6	8.8	333	4	US-09-513-999C-2877
4	247	7.4	279	4	US-09-016-434-91
5	225.2	6.8	2377	4	US-09-920-668-3
6	223.6	6.7	2351	4	US-09-949-016-3250
7	187.8	5.6	378	4	US-09-513-999C-3684
8	109.6	3.3	1830	4	US-09-557-921-1
9	95	2.9	2283	4	US-09-949-016-4617
10	95	2.9	2303	4	US-09-922-146-3
11	94.6	2.8	1208	4	US-09-023-655-347
12	90.2	2.7	2109	4	US-09-016-434-1135
13	90.2	2.7	2109	4	US-09-023-655-946
14	90.2	2.7	2475	4	US-09-949-016-2615
15	89.2	2.7	13782	4	US-09-949-016-14992
16	86.2	2.6	240	4	US-09-016-434-776
17	85.6	2.6	1619	4	US-09-702-705-801
18	85.6	2.6	1619	4	US-09-736-457-801
19	85.6	2.6	1619	4	US-09-614-124B-801
20	85.6	2.6	1619	4	US-09-671-325-801
21	85.6	2.6	1619	4	US-09-589-184-801
22	85.6	2.6	1619	4	US-09-658-824-801
23	85.6	2.6	4637	4	US-09-702-705-804
24	85.6	2.6	4637	4	US-09-736-457-804
25	85.6	2.6	4637	4	US-09-614-124B-804
26	85.6	2.6	4637	4	US-09-671-325-804
27	85.6	2.6	4637	4	US-09-589-184-804

28	85.6	2.6	4637	4	US-09-658-824-804	Sequence 804, App
29	84	2.5	1238	2	US-08-530-290-11	Sequence 11, Appl
30	84	2.5	1238	4	US-09-702-705-803	Sequence 803, App
31	84	2.5	1238	4	US-09-736-457-803	Sequence 803, App
32	84	2.5	1238	4	US-09-614-124B-803	Sequence 803, App
33	84	2.5	1238	4	US-09-671-325-803	Sequence 803, App
34	84	2.5	1238	4	US-09-589-184-803	Sequence 803, App
35	84	2.5	1238	4	US-09-658-824-803	Sequence 825, App
36	84	2.5	2064	4	US-09-702-705-825	Sequence 825, App
37	84	2.5	2064	4	US-09-736-457-825	Sequence 825, App
38	84	2.5	2064	4	US-09-614-124B-825	Sequence 825, App
39	84	2.5	2064	4	US-09-671-325-825	Sequence 825, App
40	84	2.5	2064	4	US-09-589-184-825	Sequence 825, App
41	84	2.5	2064	4	US-09-658-824-825	Sequence 826, App
42	84	2.5	2109	4	US-09-702-705-826	Sequence 826, App
43	84	2.5	2109	4	US-09-736-457-826	Sequence 826, App
44	84	2.5	2109	4	US-09-614-124B-826	Sequence 826, App
45	84	2.5	2109	4	US-09-671-325-826	Sequence 826, App

ALIGNMENTS

RESULT 1

US-09-816-494-1
; Sequence 1, Application US/09816494
; Patent No. 6664089
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel A.
; TITLE OF INVENTION: 38692 AND 21117, NOVEL DUAL SPECIFICITY
; FILE REFERENCE: 10448-030002
; CURRENT APPLICATION NUMBER: US/09/816,494
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/191,858
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ IDS NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 3544
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (589)...(2583)
US-09-816-494-1

Query Match	88.5%	Score	2950;	DB	4;	Length	3544;
Best Local Similarity	95.0%	Pred. No.	0;				
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Gaps	2;						
QY	197	GCTTTTCAGTCCAGCTGTAAGCTGTTGGAGCGGGAGCAAGGTAAGAAATGATGTAATG	256				
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QY	257	CGTGGCTGCTCCAAAGCATCTTTTGTGTGGAATGTTATTCAGTCACTCTCTTTATGA	316				
Db	284	CGTGGCTGCTCCAAAGCATCTTTTGTGTGGAATGTTATTCAGTCACTCTCTTTATGA	343				
QY	317	ATCAAAATGTGAGGGCTGCTTTGTGGAAGGAGTCTTTTTCAGAGCACATCAACGGGAAA	376				
Db	344	ATCAAAATGTGAGGGCTGCTTTTGTGGAAGGAGTCTTTTTCAGAGCACATCAACGGGAAA	403				
QY	377	GAGAAAGACATTCACCTTGGAGGGCTCTTGCTGAAATGGGTTTAACTCTCTCTTTTGGC	436				
Db	404	GAGAAAGACATTCACCTTGGAGGGCTCTTGCTGAAATGGGTTTAACTCTCTCTTTTGGC	463				
QY	437	AGTCACACCCAGCTGACCTCATACACTTTTAGTACAATGGAGTGGCTGAGCCTTTTGAGC	496				
Db	464	AGTCACACCCAGCTGACCTCATACACTTTTAGTACAATGGAGTGGCTGAGCCTTTTGAGC	523				
QY	497	ACACCAACCATTTACATCATCGTGGCAATTAAGAGAGGTTGGGAAAGAGGACTTATTG	556				

Dd	524	ACACCACATTACATCATCGTGGCAAAATTAAAGAGGAGGTGGGAAAGAGACTTATTG	583
Qy	557	TTGTCAATGCCCATGAGATGATGGAACTCAAAATTGTTACTGAGAGGTTGGTGGCTTCGC	616
Dd	584	TTGTCAATGCCCATGAGATGATGGAACTCAAAATTGTTACTGAGAGGTTGGTGGCTTCGC	643
Qy	617	TGGAAGTGGAAAGGAAAGTGGCTAAATTTGATAGCCGGCCATTTGTTGGAATACAATA	676
Dd	644	TGGAAGTGGAAAGGAAAGTGGCTAAATTTGATAGCCGGCCATTTGTTGGAATACAATA	703
Qy	677	CATCCACATTTTGGAAAGCATTAAATATCAACTGCTCCAAAGCTTATGAAGCAAGGTTGC	736
Dd	704	CATCCACATTTTGGAAAGCATTAAATATCAACTGCTCCAAAGCTTATGAAGCAAGGTTGC	763
Qy	737	AACAGACAAAGTGTAAATACAGAGCTCATCCAGCATTCAGCGAAACATAAAGTTTGACA	796
Dd	764	AACAGACAAAGTGTAAATACAGAGCTCATCCAGCATTCAGCGAAACATAAAGTTTGACA	823
Qy	797	TTGATTTGCAGTCAGAAAGTGTAGTTTACGATCAAAAGCTCCCAAGATGTTGCTCTCTCT	856
Dd	824	TTGATTTGCAGTCAGAAAGTGTAGTTTACGATCAAAAGCTCCCAAGATGTTGCTCTCTCT	883
Qy	857	CTTCAGACTGTTTTCTCACTGACTTCTGGGTAAACTGGAGAGAGCTTCAACTCTGTTTC	916
Dd	884	CTTCAGACTGTTTTCTCACTGACTTCTGGGTAAACTGGAGAGAGCTTCAACTCTGTTTC	943
Qy	917	ACCTGCTTGC-----	926
Dd	944	ACCTGCTTGCAGGTGGTTTGTGAGTCTCTCGTTGTTTCCCTGGCCCTCTGTGAAGGAA	1003
Qy	927	-----	926
Dd	1004	AATCCACTGATGCCCTACCTGCAATTTCTAGCCTTTGCTTACCTGTGTCACAAATGGGC	1063
Qy	927	-----AGGAGC	932
Dd	1064	CAACCCGNAATCTTCCCAATCTTTATCTTTGGCTGCCAGCGAGATGTCCTCAACAGGAGC	1123
Qy	933	TGATGAGCAGAAATGGGATTTAGTGTAAATGCGCAAGAAATACCTGTCCAAAGCCGTG	992
Dd	1124	TGATGAGCAGAAATGGGATTTAGTGTAAATGCGCAAGAAATACCTGTCCAAAGCCGTG	1183
Qy	993	ACTTTATCCCGAGTCTCATTTCTCGCTGTCGCTGTAATGACAGCTTTTGTGAGAAA	1052
Dd	1184	ACTTTATCCCGAGTCTCATTTCTCGCTGTCGCTGTAATGACAGCTTTTGTGAGAAA	1243
Qy	1053	TTTTGCGGTGGTGGCAAAATCAGTAGATTTTCATTGAGAAAGCAAAAGCTCCCAATGGAT	1112
Dd	1244	TTTTGCGGTGGTGGCAAAATCAGTAGATTTTCATTGAGAAAGCAAAAGCTCCCAATGGAT	1303
Qy	1113	GTGTTCTAGTGCACTGTTAGCTGGGATCTCCGGCTCCGGCAACCATCGCTATCGGCTTACA	1172
Dd	1304	GTGTTCTAGTGCACTGTTAGCTGGGATCTCCGGCTCCGGCAACCATCGCTATCGGCTTACA	1363
Qy	1173	TCAATGAAGAGATGGACATGCTTTTAGATGAAGCTTACAGATTTGTGAAAGAAAAAGAC	1232
Dd	1364	TCAATGAAGAGATGGACATGCTTTTAGATGAAGCTTACAGATTTGTGAAAGAAAAAGAC	1423
Qy	1233	CTACTATATCTCAAACTTCAATTTTCTGGGCCAACTCTCGGACTATGAGAAAGATTA	1292
Dd	1424	CTACTATATCTCAAACTTCAATTTTCTGGGCCAACTCTCGGACTATGAGAAAGATTA	1483
Qy	1293	AGAACAGACTGAGCATCAGGCGCCAAAGAGCAAACTCAAGCTGTGCACTCTGGAGAGC	1352
Dd	1484	AGAACAGACTGAGCATCAGGCGCCAAAGAGCAAACTCAAGCTGTGCACTCTGGAGAGC	1543
Qy	1353	CBAATGAACCTGTCCCTGCTCTCAGAGGTTGGACAGAAAGCGAGAGCGCCCTCAGTC	1412
Dd	1544	CBAATGAACCTGTCCCTGCTCTCAGAGGTTGGACAGAAAGCGAGAGCGCCCTCAGTC	1603
Qy	1413	CACCTGTGCGCACTCTGCTACCTCAGAGGCGAGCAGCAAAAGGCCGCTGCATCCCGCA	1472
Dd	1604	CACCTGTGCGCACTCTGCTACCTCAGAGGCGAGCAGCAAAAGGCCGCTGCATCCCGCA	1663
Qy	1473	CGTGCCCGAGCGTCCCGAGCGTGCAGCCGTCGCTGTTAGAGGACAGCCCGCTGGTACAGG	1532
Dd	1664	CGTGCCCGAGCGTCCCGAGCGTGCAGCCGTCGCTGTTAGAGGACAGCCCGCTGGTACAGG	1723
Qy	1533	CGCTCAGTGGGCTGCACCTGTCCGAGACAGGCTGGAAAGACAGCAATAAGCTCAAGCGTT	1592
Dd	1724	CGCTCAGTGGGCTGCACCTGTCCGAGACAGGCTGGAAAGACAGCAATAAGCTCAAGCGTT	1783
Qy	1593	CCTTCTCTCTCGATATCAAAATCAGTTTCATATTCAGCCAGCATGGCAGCATCTTACATG	1652
Dd	1784	CCTTCTCTCTCGATATCAAAATCAGTTTCATATTCAGCCAGCATGGCAGCATCTTACATG	1843
Qy	1653	GCTTCTCTCTCATCAGAAAGTCTTTGGAATACTCAAAACCTTCCACTACTCTGGATGGGA	1712
Dd	1844	GCTTCTCTCTCATCAGAAAGTCTTTGGAATACTCAAAACCTTCCACTACTCTGGATGGGA	1903
Qy	1713	CCAAACAGCTATGCGAGTTCTCCCTGTTCAAGAACTATCGAGCAGACTCCCGAAAACA	1772
Dd	1904	CCAAACAGCTATGCGAGTTCTCCCTGTTCAAGAACTATCGAGCAGACTCCCGAAAACA	1963
Qy	1773	GTCTCTGATTAAGAGGAAAGCCAGCATCCCAAGAGCTCGACACCGCCAGGCTTCAGACA	1832
Dd	1964	GTCTCTGATTAAGAGGAAAGCCAGCATCCCAAGAGCTCGACACCGCCAGGCTTCAGACA	2023
Qy	1833	GCCAGAGCAAGCGATTGCATTCGGTCAGAAACAGGAGCAGTGGCACCGCCAGAGTCCC	1892
Dd	2024	GCCAGAGCAAGCGATTGCATTCGGTCAGAAACAGGAGCAGTGGCACCGCCAGAGTCCC	2083
Qy	1893	TTTTTATCTCCACTGCATCGAAAGTGGAGCGTGGAGGACAAATTACCAACCAAGCTTCTTTT	1952
Dd	2084	TTTTTATCTCCACTGCATCGAAAGTGGAGCGTGGAGGACAAATTACCAACCAAGCTTCTTTT	2143
Qy	1953	TCGGCTTTTCCACCAGCAGCAGCACTCAAGAGTCTGCTGGGCTGGGCTTTAAGGCT	2012
Dd	2144	TCGGCTTTTCCACCAGCAGCAGCACTCAAGAGTCTGCTGGGCTGGGCTTTAAGGCT	2203
Qy	2013	GGCACTCGGATATCTTGGCCCCCAGACCTTACCCCTTCCCTGACCGAGCAGTGGTATT	2072
Dd	2204	GGCACTCGGATATCTTGGCCCCCAGACCTTACCCCTTCCCTGACCGAGCAGTGGTATT	2263
Qy	2073	TTGCCACAGAGTCTCACACTTCTACTCTGCTCAGCCATCTACGAGGCGAGTGCAGTT	2132
Dd	2264	TTGCCACAGAGTCTCACACTTCTACTCTGCTCAGCCATCTACGAGGCGAGTGCAGTT	2323
Qy	2133	ACTCTGCCCTACAGCTGCAGCGAGTGCCTCACTTGGCGGAGACCAAGTCTATTCTGTGGCA	2192
Dd	2324	ACTCTGCCCTACAGCTGCAGCGAGTGCCTCACTTGGCGGAGACCAAGTCTATTCTGTGGCA	2383
Qy	2193	GGCGGCAAGCGCAAGTGCAGAGCTGACTCGCGCGGAGCTGSCATGAAGAGAGCCCT	2252
Dd	2384	GGCGGCAAGCGCAAGTGCAGAGCTGACTCGCGCGGAGCTGSCATGAAGAGAGCCCT	2443
Qy	2253	TTGAAAAGCAGTTTAAACCGCAGAGCTGCCAAATGGAAATTTGGAGAGAGCATCATGTCAAG	2312
Dd	2444	TTGAAAAGCAGTTTAAACCGCAGAGCTGCCAAATGGAAATTTGGAGAGAGCATCATGTCAAG	2503
Qy	2313	AGAACAGGTCA CGGGAAGAGCTGGGGAAGTGGGCGAGTCAGTCAAGTCTTTCGGGCAAGCA	2372
Dd	2504	AGAACAGGTCA CGGGAAGAGCTGGGGAAGTGGGCGAGTCAGTCAAGTCTTTCGGGCAAGCA	2563
Qy	2373	TGGAAATCATTTGAGGCTCTCTGAGAGAAAGACACTTCTGACTTCTATAGACAAATTTTTT	2432
Dd	2564	TGGAAATCATTTGAGGCTCTCTGAGAGAAAGACACTTCTGACTTCTATAGACAAATTTTTT	2623
Qy	2433	TTTTTGTGTTCAAAAAAATTTCCCTGTAAATCTGAAATATATATATATGTACATACATATAT	2492
Dd	2624	TTTTTGTGTTCAAAAAAATTTCCCTGTAAATCTGAAATATATATATATGTACATACATATAT	2683
Qy	2493	ATTTTTGAAAAATGAGGCTATGGTGTAAAGCAACAGGTGGATCAACCCAGTTGTACTTC	2552
Dd	2684	ATTTTTGAAAAATGAGGCTATGGTGTAAAGCAACAGGTGGATCAACCCAGTTGTACTTC	2743

QY	2553	TCTTAACATCTGCAATTTGAGAGATCAGCTAAATCTCTCTCAACAAAAATGAAGGCGAG	2612
Db	2744	TCTTAACATCTGCAATTTGAGAGATCAGCTAAATCTCTCTCAACAAAAATGAAGGCGAG	2803
QY	2613	ATGCTAGAATCCCCCTAGACGAGGAAACCAATTTTATTCAGTGAATTTACACATCTCT	2672
Db	2804	ATGCTAGAATCCCCCTAGACGAGGAAACCAATTTTATTCAGTGAATTTACACATCTCT	2863
QY	2673	TGTTCTTAAAGAAGCAAGTGTCTTTGGTGTGGAGGACAAAATCCCTTACCATTTCAC	2732
Db	2864	TGTTCTTAAAGAAGCAAGTGTCTTTGGTGTGGAGGACAAAATCCCTTACCATTTCAC	2922
QY	2733	GTGTGCTACTAAGAGATCTCAAAATATTAGTCTTTTGTCCGGACCCCTCCATAGTACACCT	2792
Db	2923	GTGTGCTACTAAGAGATCTCAAAATATTAGTCTTTTGTCCGGACCCCTCCATAGTACACCT	2982
QY	2793	TAGCGCTGAGACTGAGCCAGCTTGGGGGTCAAGTAGGTAGACCTGTTTAGGGACAGAGCC	2852
Db	2983	TAGCGCTGAGACTGAGCCAGCTTGGGGGTCAAGTAGGTAGACCTGTTTAGGGACAGAGCC	3042
QY	2853	TAGTGTAAATCCAAGAGAAATGATCCTATCCAAAGCTGATTCACAAAACCCACGCTCAC	2912
Db	3043	TAGTGTAAATCCAAGAGAAATGATCCTATCCAAAGCTGATTCACAAAACCCACGCTCAC	3102
QY	2913	TGACGCCGAGGACACGAGCATCACTCTGCTGGACGGACCAATTAGGGGCTTGCCAAAG	2972
Db	3103	TGACGCCGAGGACACGAGCATCACTCTGCTGGACGGACCAATTAGGGGCTTGCCAAAG	3162
QY	2973	TCTACCTTAGAGCAAAACCCAGTACCTCAGACAGGAAAGTCGGGGCTTTGACCACTACCAT	3032
Db	3163	TCTACCTTAGAGCAAAACCCAGTACCTCAGACAGGAAAGTCGGGGCTTTGACCACTACCAT	3222
QY	3033	ATCTGTAGCCCAATTTCTAGGCAATTTGTGAATAGGTAGGTAGTACACATTTTCAGA	3092
Db	3223	ATCTGTAGCCCAATTTCTAGGCAATTTGTGAATAGGTAGGTAGTACACATTTTCAGA	3282
QY	3093	CCAAATCAAACTGCTATGACAAAAATCCCGTGGGCTAGATGGAGATAAATTTTTTTT	3152
Db	3283	CCAAATCAAACTGCTATGACAAAAATCCCGTGGGCTAGATGGAGATAAATTTTTTTT	3342
QY	3153	CTTCTCAGCTTTATGAAGAGAGGAAACTGTCTAGGATTCAGCTGAACCAACGAGAAC	3212
Db	3343	CTTCTCAGCTTTATGAAGAGAGGAAACTGTCTAGGATTCAGCTGAACCAACGAGAAC	3402
QY	3213	TGGCAACATCAGATTTAACTAAGTGGAGGCTTAAACAGTCTACCTCCCTCTTTGTA	3272
Db	3403	TGGCAACATCAGATTTAACTAAGTGGAGGCTTAAACAGTCTACCTCCCTCTTTGTA	3462
QY	3273	AATCAAGAAATGTTTAAATGGGATTTGCAATCCCTTAAATAAAGATGAATTTGGTTTC	3332
Db	3463	AATCAAGAAATGTTTAAATGGGATTTGCAATCCCTTAAATAAAGATGAATTTGGTTTC	3522

RESULT 2
 US-09-816-494-3
 ; Sequence 3, Application us/09816494
 ; Patent No. 6664089
 ; GENERAL INFORMATION:
 ; APPLICANT: Meyers, Rachel A.
 ; TITLE OF INVENTION: 38692 And 21117, NOVEL DUAL SPECIFICITY
 ; TITLE OF INVENTION: PHOSPHATASE MOLECULES AND USES THEREFOR
 ; FILE REFERENCE: 10448-030002
 ; CURRENT APPLICATION NUMBER: US/09/816,494
 ; CURRENT FILING DATE: 2001-03-23
 ; PRIOR FILING DATE: 2000-03-24
 ; NUMBER OF SEQ ID NOS: 10
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3
 ; LENGTH: 1998
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-816-494-3

Query Match	49.8%;	Score 1660;	DB 4;	Length 1998;
Best Local Similarity	91.8%;	Pred. No. 0;		
Matches 1834;	Conservative	0;	Mismatches	0; Indels 164; Gaps 1;
QY	562	ATGGCCCATGAGATGATTGGAACTCAAAATTTGTTACTAGAGAGTTGGTGGCTCTGCTGGAA	621	
Db	1	ATGGCCCATGAGATGATTGGAACTCAAAATTTGTTACTAGAGAGTTGGTGGCTCTGCTGGAA	60	
QY	622	AGTGAACCGGAAAAAGTCTGCTAATTGATAGCCGGCCCAATTTGTGGAATACAATACATCC	681	
Db	61	AGTGAACCGGAAAAAGTCTGCTAATTGATAGCCGGCCCAATTTGTGGAATACAATACATCC	120	
QY	682	CACATTTTGGGAAGCCATTAATCAACTGCTTCCAAGCTTTATGAAGCGAAGGTTGCAACAG	741	
Db	121	CACATTTTGGGAAGCCATTAATCAACTGCTTCCAAGCTTTATGAAGCGAAGGTTGCAACAG	180	
QY	742	GACAAAGTGTAAATTACAGAGCTCATCCAGCATTCAGCGAAACATAAAGTTGACATTCAT	801	
Db	181	GACAAAGTGTAAATTACAGAGCTCATCCAGCATTCAGCGAAACATAAAGTTGACATTCAT	240	
QY	802	TGCACTCAGAAGTTGTAGTTTACGATCAAAAGCTCCCAAGATGTTGCCCTCTCTCTTCA	861	
Db	241	TGCACTCAGAAGTTGTAGTTTACGATCAAAAGCTCCCAAGATGTTGCCCTCTCTCTTCA	300	
QY	862	GACTGTTTTCTCAGTGTACTTTCTGGGTAAACTGGGAGAGAGCTTCAACTCTGTTCACTG	921	
Db	301	GACTGTTTTCTCAGTGTACTTTCTGGGTAAACTGGGAGAGAGCTTCAACTCTGTTCACTG	360	
QY	922	CTTGC-----	926	
Db	361	CTTGCAAGTGGGTTTGTGCTGAGTTCCTCGTTGTTTCCCTGGCCTCTGTGAAGGAAATCC	420	
QY	927	-----	926	
Db	421	ACTCTAGTCCCTACCTGCATTTCTCAGCCTTGTCTTACCTGTTGCCAAACATTGGGCCAAAC	480	
QY	927	-----	937	-----AGGAGCTGTATG
Db	481	CGAATTTCTTCCCAATCTTTATCTTGGCTGCCAGCGAGATGTCTCTCAAAGGAGCTGATG	540	
QY	938	CAGCAGAATGGGATTTGGTTATGTGTTAAATGTCAGCAATACCTGTCCAAAGCTGACTTT	997	
Db	541	CAGCAGAATGGGATTTGGTTATGTGTTAAATGTCAGCAATACCTGTCTCAAAGCTGACTTT	600	
QY	998	ATCCCGGAGTCTCATTTCTCGTGTGCTGCTGTAATGACAGAGCTTTTGTGAGAAAAATTTTG	1057	
Db	601	ATCCCGGAGTCTCATTTCTCGTGTGCTGCTGTAATGACAGAGCTTTTGTGAGAAAAATTTTG	660	
QY	1058	CCGTGGTTGGACAAATCAGTAGATTTTCAATTGAGAAAGCAAAAGCCCTCCAATGGATGTGT	1117	
Db	661	CCGTGGTTGGACAAATCAGTAGATTTTCAATTGAGAAAGCAAAAGCCCTCCAATGGATGTGT	720	
QY	1118	CTAGTGCACTGTTTGTAGCTGGATCTCCCGCTCGGCCCAATCGCTATCGCTACATCATG	1177	
Db	721	CTAGTGCACTGTTTGTAGCTGGATCTCCCGCTCGGCCCAATCGCTATCGCTACATCATG	780	
QY	1178	AAGAGATGGACATGCTTTTATGATGAAGCTTACAGATTTGTGAAAGAAAAAGACCTACT	1237	
Db	781	AAGAGATGGACATGCTTTTATGATGAAGCTTACAGATTTGTGAAAGAAAAAGACCTACT	840	
QY	1238	ATATCTCCAAACTTCAATTTTCTGGGCCCAACTCTCGGACTATGAGAAGAGATTAAAGAAC	1297	
Db	841	ATATCTCCAAACTTCAATTTTCTGGGCCCAACTCTCGGACTATGAGAAGAGATTAAAGAAC	900	
QY	1298	CAGACTGGAGCATCAGGGCCAAAGAGCAAACTCAAGCTGCTGCACTGAGAGGCCAAT	1357	
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QY	1358	GAACCTGTCCTGCTGCTCAGAGGGTGGACAGAAAGCGAGACGCCCTCAGTCCACCC	1417	
Db	961	GAACCTGTCCTGCTGCTCAGAGGGTGGACAGAAAGCGAGACGCCCTCAGTCCACCC	1020	

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QY 1418 TGTGCGGACTCTGTACTCTCAGAGGCGAGCAGCAAGAGCCGCTGCATCCCGCAGCGTG 1477
Db 1021 TGTGCGGACTCTGTACTCTCAGAGGCGAGCAGCAAGAGCCGCTGCATCCCGCAGCGTG 1080
QY 1478 CCAGCGTGCCCGAGCGTGCGCTGCTGTAGAGGACAGCCGCTGTGTACAGCGGCTC 1537
Db 1081 CCAGCGTGCCCGAGCGTGCGCTGCTGTAGAGGACAGCCGCTGTGTACAGCGGCTC 1140
QY 1538 AGTGGGCTGCAGCTGTCCCGACAGAGCTGGAGAGCAGCAATAAGCTCAAGCGTTCCTTC 1597
Db 1141 AGTGGGCTGCAGCTGTCCCGACAGAGCTGGAGAGCAGCAATAAGCTCAAGCGTTCCTTC 1200
QY 1598 TCTCTGGATATCAATCAGTTTCATATTCAGCCAGCATGGCAGCATCCTTACATGGCTTC 1657
Db 1201 TCTCTGGATATCAATCAGTTTCATATTCAGCCAGCATGGCAGCATCCTTACATGGCTTC 1260
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Db 1321 AAGCTATGCCAGTTCTCCCTGTTTCCAGGAACTATCGGAGCAGACTCCGAAACCCAGTCTT 1380
QY 1778 GATAAGGAGGAGCCAGCATCCCAAGAGCTGCCAGCCGAGGCTTCAGACAGCCAG 1837
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QY 1838 AGCAAGCGGATTCGATTCGGTTCAGAAACCCAGCAGTGGCCGCGCCAGAGTCCCTTTTAA 1897
Db 1441 AGCAAGCGGATTCGATTCGGTTCAGAAACCCAGCAGTGGCCGCGCCAGAGTCCCTTTTAA 1500
QY 1898 TCTCCACTGCATCGAAGTGGGAGCGTGGAGGAGCAATTAACACAGCTTCCTTTTCGGC 1957
Db 1501 TCTCCACTGCATCGAAGTGGGAGCGTGGAGGAGCAATTAACACAGCTTCCTTTTCGGC 1560
QY 1958 CTTTCCACAGCCAGCAGCAGCTCAGCAAGTCTGCTGGCGTGGCTTAAGGGCTGGCAC 2017
Db 1561 CTTTCCACAGCCAGCAGCAGCTCAGCAAGTCTGCTGGCGTGGCTTAAGGGCTGGCAC 1620
QY 2018 TCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTGACGAGCAGCTGGTATTTTGGC 2077
Db 1621 TCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTGACGAGCAGCTGGTATTTTGGC 1680
QY 2078 ACAGAGTCTCAGCTTCTACTCTGCTCAGCCATCTACGAGGAGTCCGAGTACTCT 2137
Db 1681 ACAGAGTCTCAGCTTCTACTCTGCTCAGCCATCTACGAGGAGTCCGAGTACTCT 1740
QY 2138 GCCTACAGCTGGCAGCCAGCTGCCACTTGGGAGACCAAGTCTATTCTGTGCGCAGGCGG 2197
Db 1741 GCCTACAGCTGGCAGCCAGCTGCCACTTGGGAGACCAAGTCTATTCTGTGCGCAGGCGG 1800
QY 2198 CAGAAGCCAAAGTACAGAGCTGACTCGCGCGGAGCTGGCATGAAGAGAGCCCTTTTGA 2257
Db 1801 CAGAAGCCAAAGTACAGAGCTGACTCGCGCGGAGCTGGCATGAAGAGAGCCCTTTTGA 1860
QY 2258 AAGCAGTTTAAACGAGAGAGTCCGCAATGGAAATTTGGAGAGAGCATCATGTACAGAAC 2317
Db 1861 AAGCAGTTTAAACGAGAGAGTCCGCAATGGAAATTTGGAGAGAGCATCATGTACAGAAC 1920
QY 2318 AGGTACGCGGAGAGCTGGGGAAGTGGCAGTCACTAGCTTTTCGGGAGCATGGAA 2377
Db 1921 AGGTACGCGGAGAGCTGGGGAAGTGGCAGTCACTAGCTTTTCGGGAGCATGGAA 2377
QY 2378 ATCATTGAGGTCTCCTGA 2395
Db 1981 ATCATTGAGGTCTCCTGA 1998
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RESULT 3

US-09-513-999C-2877
; Sequence 2877, Application US/09513999C
; Patent No. 6783961

```
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59, US2, REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 2877  
; LENGTH: 333  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 127..333  
; FEATURE:  
; NAME/KEY: misc_feature  
; LOCATION: 17  
; OTHER INFORMATION: h=a or c or t  
; FEATURE:  
; NAME/KEY: misc_feature  
; LOCATION: 18  
; OTHER INFORMATION: y=c or t  
; FEATURE:  
; NAME/KEY: misc_feature  
; LOCATION: 19  
; OTHER INFORMATION: k=g or t  
; FEATURE:  
; NAME/KEY: misc_feature  
; LOCATION: 36  
; OTHER INFORMATION: n=a, g, c or t  
; FEATURE:  
; NAME/KEY: misc_feature  
; LOCATION: 58  
; OTHER INFORMATION: r=a or g  
; FEATURE:  
; NAME/KEY: misc_feature  
; LOCATION: 237  
; OTHER INFORMATION: w=a or t  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 37  
; OTHER INFORMATION: Xaa=His or Gln  
; US-09-513-999C-2877
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Query Match 8.8%; Score 294.6; DB 4; Length 333;  
Best Local Similarity 97.3%; Pred. No. 2.1e-82;  
Matches 326; Conservative 5; Mismatches 0; Indels 4; Gaps 3;  
  
QY 595 ACTGAGAGTGGTGGCTCTCTGGAAGTGGAAAGCGG-AAAAAGTGTGCTAATTGATAG 653  
Db 1 ACTGAGAGTGGTGGHHY--KCTGAAAGTGAACGGAAGTGTGCTAATTGATAR 58  
QY 654 CCGGCCATTTGTGGAATA-CAATACATCCACATTTTGGAAAGCCATTAATATCAACTGCT 712  
Db 59 CCGGCCATTTGTGGAATACCAATACATCCACATTTTGGAAAGCCATTAATATCAACTGCT 118  
QY 713 CCAAGCTTATGAAGCAAGGTTGCAAGGACAAAGTGTTAATTACAGAGCTCATCCAGC 772  
Db 119 CCAAGCTTATGAAGCAAGGTTGCAAGGACAAAGTGTTAATTACAGAGCTCATCCAGC 178  
QY 773 ATTACGCGAAACATAAGGTTGACATTGTCAGTCAGAGAGTGTGTAGTTACGATCAAA 832  
Db 179 ATTACGCGAAACATAAGGTTGACATTGTCAGTCAGAGAGTGTGTAGTTACGATCAWA 238  
QY 833 GCTCCCAAGATGTTGCCTCTCTCTTCAGACTGTTTTCTCACTGCTACTTCTGGGTAAC 892  
Db 239 GCTCCCAAGATGTTGCCTCTCTCTTCAGACTGTTTTCTCACTGCTACTTCTGGGTAAC 298
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QY 893 TGGAGAGAGCTTCAACTCTGTTCACTGCTTGA 927
 Db 299 TGGAGAGAGCTTCAACTCTGTTCACTGCTTGA 333

RESULT 4

US-09-016-434-91
 ; Sequence 91, Application US/09016434
 ; Patent No. 6500938
 ; GENERAL INFORMATION:
 ; APPLICANT: Janice Au-Young
 ; APPLICANT: Jeffrey J. Seilhamer
 ; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
 ; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
 ; NUMBER OF SEQUENCES: 1490
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
 ; STREET: 3174 PORTER DRIVE
 ; CITY: PALO ALTO
 ; STATE: CALIFORNIA
 ; COUNTRY: USA
 ; ZIP: 94304
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/016,434
 ; FILING DATE: HEREMITH
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Zeller, Karen J.
 ; REGISTRATION NUMBER: 37,071
 ; REFERENCE/DOCKET NUMBER: PA-0002 US
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (650) 855-0555
 ; TELEFAX: (650) 845-4166
 ; INFORMATION FOR SEQ ID NO: 91:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 279 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; IMMEDIATE SOURCE:
 ; LIBRARY: LUNGFET03
 ; CLONE: 1234795
 ; US-09-016-434-91

Query Match 7.4%; Score 247; DB 4; Length 279;
 Best Local Similarity 100.0%; Pred. No. 2.2e-67;
 Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 538 GGGAAAAGAGACTTATTGTTGTCATGCGCCCATGAGATGATTGGAACCTCAAATTTGTTACT 597
 Db 1 GGGAAAAGAGACTTATTGTTGTCATGCGCCCATGAGATGATTGGAACCTCAAATTTGTTACT 60
 QY 598 GAGAGTTGGTCTCTGCGAAAAGTGGAAACGAAAGTGTCTTAATTTGATAGCCGG 657
 Db 61 GAGAGTTGGTCTCTGCGAAAAGTGGAAACGAAAGTGTCTTAATTTGATAGCCGG 120
 QY 658 CCATTTTGGATACATACATCCACATTTTGAAGCCATTATATCAACTGCTCCCAAG 717
 Db 121 CCATTTTGGATACATACATCCACATTTTGAAGCCATTATATCAACTGCTCCCAAG 180
 QY 718 CTTATGAAGCGAAGTTGCAACAGGAGCAAAAGTGTAAATTAACAGAGCTCATCCAGATTCA 777
 Db 181 CTTATGAAGCGAAGTTGCAACAGGAGCAAAAGTGTAAATTAACAGAGCTCATCCAGATTCA 240

QY 778 GCGAAAC 784
 Db 241 GCGAAAC 247
 RESULT 5
 US-09-920-668-3
 ; Sequence 3, Application US/09920668
 ; Patent No. 6482644
 ; GENERAL INFORMATION:
 ; APPLICANT: Lex M. Cowbert
 ; APPLICANT: Brett P. Monia
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF DUAL SPECIFIC PHOSPHATASE 8 EXPRESSION
 ; FILE REFERENCE: RTS-0246
 ; CURRENT APPLICATION NUMBER: US/09/920,668
 ; CURRENT FILING DATE: 2001-08-01
 ; NUMBER OF SEQ ID NOS: 49
 ; SEQ ID NO 3
 ; LENGTH: 2377
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (135)... (2012)
 ; US-09-920-668-3

Query Match 6.8%; Score 225.2; DB 4; Length 2377;
 Best Local Similarity 60.6%; Pred. No. 9.9e-60;
 Matches 418; Conservative 0; Mismatches 248; Indels 24; Gaps 2;
 QY 927 AGGAGCTGATGCAGCAGAAATGGGATTGTTATGTGTTAAATCCAGCAATACCTGTCCAA 986
 Db 670 AGGATCTGATGACGCAAAATGGAATAGCTACGTCTCAACGCCAGCAACTCTTGCCCA 729
 QY 987 AGCTGACTTTATCCCGAGTCTCATTTCTCGGTGCTGCTGTGATGACAGCTTTTGTG 1046
 Db 730 AGCTGACTTCTATCGCAGAGCCGCTTCATCGGGTCCCATCAACGACAACTACTGTG 789
 QY 1047 AGAAAATTTTGGCTGGTTGGACAAATCAGTAGATTTCATTGAGAAAGCAAAAGCCTCCA 1106
 Db 790 AAAAATCTGCTGCTGCTGGCTGGACAGTCAATCGATTTCATGATAAAGCCAGCTCTCA 849
 QY 1107 ATGGATGTGTTCTAGTGCACTGTTTAGTGGGATCTCCGCTCCGCCACCATGCTATCG 1166
 Db 850 GCTGCCAAGTCACTGCTCCACTGTCGTGGTGGCATCTCCCGCTGCGCACCATCGCCATCG 909
 QY 1167 CTTACATCATGAGAGGATGGACATGCTCTTTAGATGAAGCTTACAGATTGTGAAAGAAA 1226
 Db 910 CTTACATCATGAGACCATGGGCATGCTCTCCGACGACGCCTACAGGTTTCGTGAAGGACA 969
 QY 1227 AAAGACCTACTATATCTCCAAATTTTCTGGGCCAACTCTCTGGGACTATGAGAAGA 1286
 Db 970 GCGCGCCGCTCCATCTCGCCCAACTTCACTTCTGGGCCAGCTGCTGGAGTAGCAGCGCA 1029
 QY 1287 AGATTAAAGAACAGACTGGAGCATCAGGGCCAAAGAGCAAACTCAAGCTGCTGACCTGG 1346
 Db 1030 CGCTGAAGCTGTGGCGCCCTCGAGGGCGACCCCGGCCACCCCTCAGGGAGC-CCGG 1086
 QY 1347 AGAAGCCAAATGAACCTGTCCTGCTGTCTCAGAGGGTGGACAGAAAAGGAGAGACGCCCC 1406
 Db 1087 AGCCTCGGCCAGTCTCTGCGCGCGGGCCCGCTGCGAGGGTGGCCACACCTACCTACCTAG 1146
 QY 1407 TCAGTCCACCTGTGCGGACTCTGCTACCTCAGAGGCACGAGGACAAAGGCCGCTGCATC 1466
 Db 1147 AGAGCGCTGCCACAGGAAATGCGGCTGCGCAGGAGGGCG------ 1185
 QY 1467 CGCCAGCTGCCAGCGTCCCGAGCGTCCCGAGCGTGCAGCGCTGCTGTGTAGAGGACAGCCGCTGG 1526
 Db 1186 GCTGAGCGCGGGGAGGAGCCCGCGCGCCCGCGCGCCCGCGGCGGCGGCGGCGGCGGCGGCGG 1245
 QY 1527 TACAGCGCTCAGTGGGCTGCACCTCTCGCAGACAGAGGTGGAGACAGCAATAAGCTCA 1586

Db 1246 AGCAGGGCTGCGCGCCTGCACCTCTCTCGGACCGCTGCAGGACACTAACCGCTCA 1305
QY 1587 AGCGTTCCTTCTCTTGGATATAAATCAG 1616
Db 1306 AGCGCTCTTCTCTCGGACATCAAGTCTG 1335
RESULT 6
US-09-949-016-3250
; Sequence 3250, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3250
; LENGTH: 2351
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3250

Query Match 6.7%; Score 223.6; DB 4; Length 2351;
Best Local Similarity 60.4%; Pred. No. 3.2e-59;
Matches 417; Conservative 0; Mismatches 249; Indels 24; Gaps 2;
QY 927 AGGAGCTGATGACAGAGATGGATGGTTATGTATGTAAATGCCAGCAATACCTGTCCAA 986
Db 644 AGGATCTGATGACGCAAAATGGAATAAGCTCTCTCAACGCCCAACTCTGTGCCCA 703
QY 987 AGCTGACTTTATCCCGAGTCTCATTTCTCGGTGTGCTGTGAATGACAGCTTTTGTG 1046
Db 704 AGCTGACTTCTCTGGAGAGCGCTTCTATGGGGTCCCATCAACGACACTACTGTG 763
QY 1047 AGAAATTTTGGCGTGTGGACAAATCAGTAGATTTCAATGAGAAGCAAAAGCTCCA 1106
Db 764 AAAAACTGCTGCTGGTGGACAAAGTCCATCGAGTTTCATCGATAAGCAAGCTCTCCA 823
QY 1107 ATGGATGTGTTCTAGTGCATGTTTGTAGCTGGATCTCCGCTCCGCCACCATCGCTATCG 1166
Db 824 GCTGCCAAGTCACTGCTCCACTGCTGGCTGGCATCTCCGCTCTGCCCATCGCCATCG 883
QY 1167 CTTACATCATGAAGAGATGGACATGCTTTTAGATGAAGCTTACAGATTGTGAAAGAAA 1226
Db 884 CTTACATCATGAAGACCATGGGATGCTCTCGACAGCCCTACAGTTCTGTGAAGACA 943
QY 1227 AAAGACTACTATATCTCCAACTTCAATTTTCTGGGCCCAACTCTCGGACTATGAGA 1286
Db 944 GGGCCCGTCCATCTCGCCCACTTCAACTTCTGGGCCCAAGTCTGTGGAGTACGAGCGCA 1003
QY 1287 AGATTGAACACAGATGGNGCATCAGGGCCAAAGCAAACTCAAGCTGTGTCACCTGG 1346
Db 1004 GCCTGAAGTGTGGCGCGCCTCGACGGGACCCGGCA-----CCCCCTCAG 1051
QY 1347 AGAAGCCAAATGAACCTGTCTCCCTGCTCTCAGAGGGTGCAGAGAAAGCGAGACGCCCC 1406
Db 1052 GGACGGGAGCCCTCGCCCACTCTCGCCCGGGGCCCCGCTGCCACGGCTGCCACAC 1111
QY 1407 TCAGTCCACCTGTGCGACTCTGTACTCTCAGAGGACAGAGCAAAAGCCGCGTGCATC 1466
Db 1112 CTACCTCAGAGAGCGCTGCCACAGGAAATGCGGCTGCCAGGAGGGCGGCGCTG----- 1164
QY 1467 CGCCAGCGTGCACCGTGCACCGTGCAGCGCTGCTGTTAGAGGACAGCCCGCTGG 1526

Db 1165 -----AGCGGGGGGGAGCCCCCGCGCCCCACCGCCCCCGGACCGCACTGC 1219
QY 1527 TACAGGCGCTCAGTGGGCTGCACCTGTCCGAGAGAGGCTGGAAAGACAGCAATAAGCTCA 1586
Db 1220 AGCAGGGCTGCGGGCTGCACCTCTCTCGGACCGCTGCAGGACACTAACCGCTCA 1279
QY 1587 AGCGTTCCTTCTCTTGGATATCAATCAG 1616
Db 1280 AGCGCTCTTCTCTCGGACATCAAGTCTG 1309

RESULT 7

US-09-513-999C-3684/c
; Sequence 3684, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59, US2, REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 3684
; LENGTH: 378
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 216...377
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 164
; OTHER INFORMATION: k=g or t
US-09-513-999C-3684

Query Match 5.6%; Score 187.8; DB 4; Length 378;
Best Local Similarity 99.0%; Pred. No. 1.7e-48;
Matches 189; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 605 TGGTGGCTCTGCTGGAAGTGGAAACGGAAGTCTGCTAATTTGATAGCCGCCATTG 664
Db 378 TGGTGGCTCTGCTGGAAGTGGAAACGGAAGTCTGCTAATTTGATAGCCGCCATTG 319
QY 665 TGAATACATACATCCACATTTTGGAAAGCCATTAAATCACTGCTCCAAAGCTTATGA 724
Db 318 TGAATACATACATCCACATTTTGGAAAGCCATTAAATCACTGCTCCAAAGCTTATGA 259
QY 725 AGCGAGGTTCCACAGACAGCAAAAGTGTAAATACAGCTCATCCAGCATTCAGCGAAAC 784
Db 258 AGCGAGGTTCCACAGACAGCAAAAGTGTAAATACAGCTCATCCAGCATTCAGCGAAAC 199
QY 785 ATAAGGTTGAC 795
Db 198 ATAAGGTTAAC 188

RESULT 8

US-09-557-921-1
; Sequence 1, Application US/09557921
; Patent No. 6551810
; GENERAL INFORMATION:
; APPLICANT: Lucche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-10 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.416
; CURRENT APPLICATION NUMBER: US/09/557,921

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; CURRENT FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1830
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-557-921-1

Query Match      3.3%; Score 109.6; DB 4; Length 1830;
Best Local Similarity 61.0%; Pred. No. 3.6e-23;
Matches 178; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

QY 1006 GTCATCTTCCTCGGTGTCCTGTGAATCAGAGCTTTTGTGAGAAATTTTCCCGTGGT 1065
DB 1187 GTTCACTACAAGCGCTCCAGCCACTGACAGCAACAGCAGAGCTTCTCTACTT 1246
QY 1066 GGACAAATCAGTAGATTTCAATGAGAAACAAAGCCTCCAATGGATGTTTCTAGTGA 1125
DB 1247 TGAAGAGGCTTTGAGTTCAATGAGGAAGCTCACCAGTGTGGGAAGGCTTCTCATCCA 1306
QY 1126 CTGTTTAGTGGATCTCCCGTCCGCCACCATCGCTATCGCTACATCATGAAGAGAT 1185
DB 1307 CTGCCAGGCTGGGGTGTCCCGCTCCGCCACCATCGCTATCGCTTACTTGGATGAACAC 1366
QY 1186 GGACATGCTTTAGATGAAGCTTACAGATTTGTGAAGAAAGAAAGACCTTACTATCTCC 1245
DB 1367 TCGATGACCATGACTGATGCTTATTAATTTGTCAAGCAACGACCAATATCTCCCC 1426
QY 1246 AAACCTTCAATTTTCTGGGCAACTCCTGGCATATGAGAAAGATTAAGAAC 1297
DB 1427 AAACCTTAACTTCATGGGCGAGTTGCTAGAGTTGAGGAAGACCTTAACAAC 1478

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RESULT 9
US-09-949-016-4617
; Sequence 4617, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4617
; LENGTH: 2283
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-4617

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Query Match      2.9%; Score 95; DB 4; Length 2283;
Best Local Similarity 58.8%; Pred. No. 1.8e-18;
Matches 164; Conservative 0; Mismatches 115; Indels 0; Gaps 0;

QY 1004 GAGTCTCATTTCTCGGTGTCCTGTGAATGACAGCTTTTGTGAGAAATTTTCCCGTGG 1063
DB 858 GACTTTCACCTACAAGCAGATCCCATCTCCGACCATCTGGAGCAGAACCTGTGCGGTTT 917
QY 1064 TTGACAAATCAGTAGATTTCAATGAGAAACAAAGCCTCCAATGGATGTTTCTAGTG 1123
DB 918 TTTCCGAGGCGCATTTGAGTTCAATGATGAGGCGCTTGTCCAGAACCTGCGGGGTCTCGTC 977
QY 1124 CACTGTTTACTGGATCTCCCGTCCGCCACCATGCTATCGCTTACATCATGAAGAGG 1183

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DB 978 CACTGCTTGGCGGGGTGAGCCGTTCTGTCTACCTCTACTGTGGCTTACTCTATCGAGAAG 1037
QY 1184 ATGCACATGCTTTTAGATGAAGCTTACAGATTTTGTGAAAGAAAAAGACCTTACTATCT 1243
DB 1038 CTCACCTCTCTCTCAACGATGCTATGACACCTGTGCAAGAGGAAGTCTTAACATCTCC 1097
QY 1244 CCAAACTTCAATTTTCTGGGCCAACTCTCTGGACTATGAG 1282
DB 1098 CCCAACTTCAACTTTCATGGGCGAGTTGCTGGACTTTGAG 1136

RESULT 10
US-09-922-146-3
; Sequence 3, Application US/09922146
; Patent No. 6566133
; GENERAL INFORMATION:
; APPLICANT: Lex M. Cowseert
; APPLICANT: Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF DUAL SPECIFIC PHOSPHATASE 9 EXPRESSION
; FILE REFERENCE: RTS-0252
; CURRENT APPLICATION NUMBER: US/09/922,146
; CURRENT FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 48
; SEQ ID NO 3
; LENGTH: 2303
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (114)...(1268)
US-09-922-146-3

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Query Match      2.9%; Score 95; DB 4; Length 2303;
Best Local Similarity 58.8%; Pred. No. 1.8e-18;
Matches 164; Conservative 0; Mismatches 115; Indels 0; Gaps 0;

QY 1004 GAGTCTCATTTCTCGGTGTCCTGTGAATGACAGCTTTTGTGAGAAATTTTCCCGTGG 1063
DB 858 GACTTTCACCTACAAGCAGATCCCATCTCCGACCATCTGGAGCAGAACCTGTGCGGTTT 917
QY 1064 TTGCAAAATCAGTAGATTTCAATGAGAAAGCAAGACCTCCAATGGATGTTTCTAGTG 1123
DB 918 TTTCCGAGGCGCATTTGAGTTCAATGATGAGGCGTTGTCCAGAACCTGCGGGGTCTCGTC 977
QY 1124 CACTGTTTACTGGATCTCCCGTCCGCCACCATGCTATCGCTTACATCATGAAGAGG 1183
DB 978 CACTGCTTGGCGGGGTGAGCGCTTCTGTCAACCTGCTGCTGCTATCGCTATCGAGAAG 1037
QY 1184 ATGGACATGCTTTTAGATGAAGCTTACAGATTTGTAAGAAAAAGACCTTACTATCT 1243
DB 1038 CTCACCTCTCTCTCAACGATGCTTATGACCTGTGTCAGAGGAAGAGTCTTAACATCTCC 1097
QY 1244 CCAAACTTCAATTTTCTGGGCCAACTCTCTGGACTATGAG 1282
DB 1098 CCCAACTTCAACTTTCATGGGCGAGTTGCTGGACTTTGAG 1136

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RESULT 11
US-09-023-655-347
; Sequence 347, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA

```

/ COUNTRY: USA
/ ZIP: 94304
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/023,655
/ FILING DATE: HEREWITH
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER:
/ FILING DATE:
/ CLASSIFICATION:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Zeller, Karen J.
/ REGISTRATION NUMBER: 37,071
/ REFERENCE/DOCKET NUMBER: PA-0001 US
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (650) 855-0555
/ TELEFAX: (650) 845-4166
/ INFORMATION FOR SEQ ID NO: 347:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1208 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ IMMEDIATE SOURCE:
/ LIBRARY: THYNOT03
/ CLONE: 1444245
/ US-09-023-655-347

Query Match 2.8%; Score 94.6; DB 4; Length 1208;

Best Local Similarity 64.3%; Pred. No. 1.5e-18;

Matches 142; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

QY 1077 TAGATTTCATTGAGAAGCAAAAGCCTCCAAATGGATGTCTTAGTGCACCTGTTAGCTG 1136
DB 4 TTGAGTTTCATTGAGGAAGCTCACCAAGTGGGAAGGGGCTTCTCATCCACTGCCAGGCTG 63
QY 1137 GGATCTCCCGCTCCGCCACCATCGCTATCGCTACATCATGAAGAGGATGGACATGTCTT 1196
DB 64 GGGTGTCCCGCTCCGCCACCATCGCTATCGCTTACTTGATGAAGCACACTCGGATGACCA 123
QY 1197 TAGATCAAGCTTACAGATTGTGAAAAAGAAAGACCTACTATATCTCCAAACTTCAATT 1256
DB 124 TGNCTGATGCTTATAATTGTCAAGGCCAAGACCAATTATCTCCCAACCTTAACT 183
QY 1257 TTCTGGGCCAACTCTCGGACTATGAGAAGAAAGATTAAAGAC 1297
DB 184 TCATGGGCGAGTTGCTAGAGTTCGAGGACCACTAAACAAAC 224

RESULT 12

US-09-016-434-1135

; Sequence 1135, Application US/09016434

; Patent No. 6500938

; GENERAL INFORMATION:

; APPLICANT: Janice Au-Young

; APPLICANT: Jeffrey J. Seilhamer

; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING

; TITLE OF INVENTION: PATHWAY GENE EXPRESSION

; NUMBER OF SEQUENCES: 1490

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

; STREET: 3174 PORTER DRIVE

; CITY: PALO ALTO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM: Floppy disk

/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/016,434
/ FILING DATE: HEREWITH
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER:
/ FILING DATE:
/ CLASSIFICATION:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Zeller, Karen J.
/ REGISTRATION NUMBER: 37,071
/ REFERENCE/DOCKET NUMBER: PA-0002 US
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (650) 855-0555
/ TELEFAX: (650) 845-4166
/ INFORMATION FOR SEQ ID NO: 1135:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2109 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ IMMEDIATE SOURCE:
/ LIBRARY: GENBANK
/ CLONE: g1418933
/ US-09-016-434-1135

Query Match 2.7%; Score 90.2; DB 4; Length 2109;

Best Local Similarity 57.1%; Pred. No. 5.6e-17;

Matches 164; Conservative 0; Mismatches 123; Indels 0; Gaps 0;

QY 1004 GAGTCTCATTTCTCGCTGTCCTGTGAATGACAGCTTTTGTGAGAAAATTTTGCCTGG 1063
DB 1105 GAGTTTAATAACAAGCAATCCCATCTCGGATCACTGGAGCCAAACCTGTCCAGTTT 1164
QY 1064 TTGACAAATCAGTAGATTTCAATTGAGAAAGCAAAAGCCTCAATGGATGTCTTAGTG 1123
DB 1165 TTCCCTGAGGGCAATTTCTTTCATAGATGAAGCCGGGCAAGAACTGTGTCTTGTA 1224
QY 1124 CACTGTTTAGCTGGATCTCCGCTCCGCCACCATCGCTATCGCTACATCATGAAGAGG 1183
DB 1225 CATTGCTTGGCTGGCAATGAGCGCTCAGTCACTGTGACTGTGGCTTACTTTATGCAAG 1284
QY 1184 ATGGACATGTCTTTAGATGAAGCTTACAGATTTTGTGAAAGAAAAAGAACTACTATCT 1243
DB 1285 CTCATCTGTCGATGAACGATGCCTATGACATTGTCAAAATGAAAAATCCAAACATAATCC 1344
QY 1244 CCAAACTTCAATTTTCTGGGCAACTCCTGGACTATGAGAAGAGAT 1290
DB 1345 CCTAACTTCAACTTTCATGGGTGAGTGTGAGCTTCGAGAGGACGCT 1391

RESULT 13

US-09-023-655-946

; Sequence 946, Application US/09023655

; Patent No. 6607879

; GENERAL INFORMATION:

; APPLICANT: Cocks, Benjamin G.

; APPLICANT: Susan G. Stuart

; APPLICANT: Jeffrey J. Seilhamer

; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE

; TITLE OF INVENTION: EXPRESSION

; NUMBER OF SEQUENCES: 1508

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

; STREET: 3174 PORTER DRIVE

; CITY: PALO ALTO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

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/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2615
/ LENGTH: 2475
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-2615

Query Match      2.7%; Score 90.2; DB 4; Length 2475;
Best Local Similarity 57.1%; Pred. No. 6.4e-17;
Matches 164; Conservative 0; Mismatches 123; Indels 0; Gaps 0;

QY 1004 GAGTCTCATTTCTCGCGTGTGCTGTGAATGACAGCTTTTGTGAGAAAATTTTGGCGTGG 1063
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1194 GAGTTTAAATAACAAGCAAAATCCCATCTCGGATCAGTCGAGCCAAAACCTGTCCAGTTT 1253
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1064 TTGGACAAATCAGTAGATTTTCATTGAGAAAGCAAAAGCCTCCAAATGGATGTGTTCTAGTG 1123
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1254 TTCCTGAGGCCATTTCTTTTATAGATGAAGCCGGGCAAGAACTGTGGTGTCTTGGA 1313
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1124 CACTGTTTAGCTGGGATCTCCGCTCCGCCACCAATCGCTATGCGCTACATCATGAAGAGG 1183
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1314 CATTGCTTGGCTGGCATTAGCGCTCAGTCACTGTGACTGTGGCTTACCTTATGAGAAG 1373
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1184 ATGGACATGCTTTTAGATGAAGCTTTACAGATTTGTGAAGAAAAGAAAGACCTACTATATCT 1243
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1374 CTCATCTGTGATGAACGATGCTCTATGACATTTGTCAAAATGAAAAAATCCAAATATCC 1433
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1244 CCAAACTTCAATTTTCTGGGCCAACTCTCGGACTATGAGAAAGAT 1290
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1434 CCTAACTTCAACTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1480
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

```
RESULT 15
US-09-949-016-14992
/ Sequence 14992, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 14992
/ LENGTH: 13782
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-14992

Query Match      2.7%; Score 89.2; DB 4; Length 13782;
Best Local Similarity 69.5%; Pred. No. 5.1e-16;
Matches 121; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 915 TCACCTGCTTGCGAGGCTGTGATGCGAGCAAGATGGGATGTTATGTGTAAATGCCAGCA 974
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 9650 TCCGGCCCTCCAGATCTGATGACGCAAAATGGAATAGCTACGTCTCAACGCCAGCA 9709
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 975 ATACCTGTCCAAAGCGCTGACTTTATCCCGAGTCTCATTTCTCGTGTGCTGTGAAATG 1034
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 9710 ACTCTGCCCCAAGCCTGACTTTCATCTGCGAGAGCGCTTTCATGCGGGTCCCATCAACG 9769
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1035 ACAGCTTTTGTGAGAAAATTTTCCCGTGTGCTGGACAAATCAGTAGATTTTCATTG 1088
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 9770 ACAACTACTGTGAAAAAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 9823
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/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/023,655
/ FILING DATE: HEREWITH
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER:
/ FILING DATE:
/ CLASSIFICATION:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Zeller, Karen J.
/ REGISTRATION NUMBER: 37,071
/ REFERENCE/DOCKET NUMBER: PA-0001 US
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (650) 855-0555
/ TELEFAX: (650) 845-4166
/ INFORMATION FOR SEQ ID NO: 946:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2109 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ IMMEDIATE SOURCE:
/ LIBRARY: GENBANK
/ CLONE: g1418933
US-09-023-655-946

Query Match      2.7%; Score 90.2; DB 4; Length 2109;
Best Local Similarity 57.1%; Pred. No. 5.6e-17;
Matches 164; Conservative 0; Mismatches 123; Indels 0; Gaps 0;

QY 1004 GAGTCTCATTTCTCGCGTGTGCTGTGAATGACAGCTTTTGTGAGAAAATTTTGGCGTGG 1063
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1105 GAGTTTAAATAACAAGCAAAATCCCATCTCGGATCAGTCGAGCCAAAACCTGTCCAGTTT 1164
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1064 TTGGACAAATCAGTAGATTTTCATTGAGAAAGCAAAAGCCTCCAAATGGATGTGTTCTAGTG 1123
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1165 TCCCTGAGGCCATTTCTTTATAGATGAAGCCGGGCAAGAACTGTGGTGTCTTGGA 1224
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1124 CACTGTTTAGCTGGGATCTCCGCTCCGCCACCACTCGCTATCGCTACATCATGAAGAGG 1183
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1225 CATTGCTTGGCTGGCATTAGCCCTCAGTCAGTGTGCTTACCTTATGCAAGAG 1284
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1184 ATGGACATGCTTTTAGATGAAGCTTACAGATTTGTGAAAGAAAAGAAAGACCTACTATATCT 1243
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1285 CTCATCTGTGATGAACGATGCTATGACATTTGTCAAAATGAAAAAATCCAAATATCC 1344
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1244 CCAAACTTCAATTTTCTGGGCCAACTCTCGGACTATGAGAAAGAT 1290
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1345 CCTAACTTCAACTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1391
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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RESULT 14
US-09-949-016-2615
/ Sequence 2615, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
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/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/023,655
/ FILING DATE: HEREWITH
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER:
/ FILING DATE:
/ CLASSIFICATION:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Zeller, Karen J.
/ REGISTRATION NUMBER: 37,071
/ REFERENCE/DOCKET NUMBER: PA-0001 US
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (650) 855-0555
/ TELEFAX: (650) 845-4166
/ INFORMATION FOR SEQ ID NO: 946:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2109 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ IMMEDIATE SOURCE:
/ LIBRARY: GENBANK
/ CLONE: g1418933
US-09-023-655-946

Query Match      2.7%; Score 90.2; DB 4; Length 2109;
Best Local Similarity 57.1%; Pred. No. 5.6e-17;
Matches 164; Conservative 0; Mismatches 123; Indels 0; Gaps 0;

QY 1004 GAGTCTCATTTCTCGCGTGTGCTGTGAATGACAGCTTTTGTGAGAAAATTTTGGCGTGG 1063
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1105 GAGTTTAAATAACAAGCAAAATCCCATCTCGGATCAGTCGAGCCAAAACCTGTCCAGTTT 1164
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1064 TTGGACAAATCAGTAGATTTTCATTGAGAAAGCAAAAGCCTCCAAATGGATGTGTTCTAGTG 1123
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1165 TCCCTGAGGCCATTTCTTTATAGATGAAGCCGGGCAAGAACTGTGGTGTCTTGGA 1224
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1124 CACTGTTTAGCTGGGATCTCCGCTCCGCCACCACTCGCTATCGCTACATCATGAAGAGG 1183
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1225 CATTGCTTGGCTGGCATTAGCCCTCAGTCAGTGTGCTTACCTTATGCAAGAG 1284
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1184 ATGGACATGCTTTTAGATGAAGCTTACAGATTTGTGAAAGAAAAGAAAGACCTACTATATCT 1243
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1285 CTCATCTGTGATGAACGATGCTATGACATTTGTCAAAATGAAAAAATCCAAATATCC 1344
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1244 CCAAACTTCAATTTTCTGGGCCAACTCTCGGACTATGAGAAAGAT 1290
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1345 CCTAACTTCAACTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1391
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Search completed: September 1, 2005, 02:13:59
Job time : 598 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 31, 2005, 11:02:23 ; Search time 43 Seconds
(without alignments)
17.360 Million cell upd

Title: US-09-964-277-16
Perfect score: 52
Sequence: 1 VHCLAGISRS 10

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

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2: /cgn2_6/pdata1/1/iaa/5B_COMB pep.*
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4: /cgn2_6/pdata1/1/iaa/6B_COMB pep.*
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6: /cgn2_6/pdata1/1/iaa/backfiles1 pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	52	100.0	87	4	US-09-371-671B-9	Sequence 9, Appli
2	52	100.0	155	4	US-09-955-732A-6	Sequence 6, Appli
3	52	100.0	156	4	US-09-955-732A-3	Sequence 3, Appli
4	52	100.0	156	4	US-09-955-732A-4	Sequence 4, Appli
5	52	100.0	168	4	US-09-544-716-13	Sequence 13, Appli
6	52	100.0	168	4	US-09-557-921-13	Sequence 13, Appli
7	52	100.0	168	4	US-09-564-357-16	Sequence 16, Appli
8	52	100.0	168	4	US-09-619-380-15	Sequence 15, Appli
9	52	100.0	170	4	US-09-544-716-12	Sequence 12, Appli
10	52	100.0	170	4	US-09-544-716-14	Sequence 14, Appli
11	52	100.0	170	4	US-09-557-921-12	Sequence 12, Appli
12	52	100.0	170	4	US-09-557-921-15	Sequence 15, Appli
13	52	100.0	170	4	US-09-564-357-15	Sequence 15, Appli
14	52	100.0	170	4	US-09-564-357-17	Sequence 17, Appli
15	52	100.0	170	4	US-09-619-380-14	Sequence 14, Appli
16	52	100.0	170	4	US-09-619-380-16	Sequence 16, Appli
17	52	100.0	491	4	US-09-949-016-8486	Sequence 8486, Ap
18	52	100.0	661	4	US-09-949-016-9121	Sequence 9121, Ap
19	52	100.0	665	4	US-09-816-494-2A-5	Sequence 2, Appli
20	51	98.1	156	4	US-09-955-732A-5	Sequence 5, Appli
21	51	98.1	207	4	US-09-270-767-44103	Sequence 44103, A
22	51	98.1	421	4	US-09-949-016-10488	Sequence 10488, A
23	48	92.3	226	3	US-09-045-973-8	Sequence 8, Appli
24	46	88.5	11	4	US-09-744-072-32	Sequence 32, Appli
25	46	88.5	23	4	US-09-544-716-5	Sequence 5, Appli
26	46	88.5	23	4	US-09-564-357-6	Sequence 6, Appli
27	46	88.5	24	4	US-09-619-380-4	Sequence 4, Appli

ALIGNMENTS

```
RESULT 1
US-09-371-671B-9
; Sequence 9, Application US/09371671B
; Patent No. 6548743
; GENERAL INFORMATION:
; APPLICANT: Sheen, Jen
; APPLICANT: Chiu, Wan-Ling
; TITLE OF INVENTION: TRANSGENIC PLANTS EXPRESSING A
; FILE OF INVENTION: DUAL-SPECIFICITY MAPK PHOSPHATASE AND USES THEREOF
; FILE REFERENCE: 00786/370002
; CURRENT APPLICATION NUMBER: US/09/371,671B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: 60/155,934
; PRIOR FILING DATE: 1999-01-14
; PRIOR APPLICATION NUMBER: 60/095,938
; PRIOR FILING DATE: 1998-08-10
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Rat rattus
; ORGANISM: Homo sapiens
US-09-371-671B-9

Query Match      100.0%; Score 52; DB 4; Length 87;
Best Local Similarity 100.0%; Pred. No. 0.0096;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      |||||
Db      34 VHCLAGISRS 43

RESULT 2
US-09-955-732A-6
; Sequence 6, Application US/09955732A
; Patent No. 6825021
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-15 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.433
; CURRENT APPLICATION NUMBER: US/09/955,732A
; CURRENT FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-732A-6

Query Match      100.0%; Score 52; DB 4; Length 155;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      |||||
Db      96 VHCLAGISRS 105

RESULT 3
US-09-955-732A-3
; Sequence 3, Application US/09955732A
; Patent No. 6825021
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
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; TITLE OF INVENTION: DSP-15 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.433
; CURRENT APPLICATION NUMBER: US/09/955,732A
; CURRENT FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-732A-3

Query Match      100.0%; Score 52; DB 4; Length 156;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      |||||
Db      97 VHCLAGISRS 106

RESULT 4
US-09-955-732A-4
; Sequence 4, Application US/09955732A
; Patent No. 6825021
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-15 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.433
; CURRENT APPLICATION NUMBER: US/09/955,732A
; CURRENT FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-732A-4

Query Match      100.0%; Score 52; DB 4; Length 156;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      |||||
Db      97 VHCLAGISRS 106

RESULT 5
US-09-544-716-13
; Sequence 13, Application US/09544716
; Patent No. 6492157
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-9 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.415
; CURRENT APPLICATION NUMBER: US/09/544,716
; CURRENT FILING DATE: 2000-04-10
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-544-716-13

Query Match      100.0%; Score 52; DB 4; Length 168;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
```

```
Db      108 VHCLAGISRS 117
|||||
; SEQ ID NO 15
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-619-380-15

Query Match      100.0%; Score 52; DB 4; Length 168;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
|||||
Db      108 VHCLAGISRS 117

RESULT 9
US-09-544-716-12
; Sequence 12, Application US/09544716
; Patent No. 6492157
; GENERAL INFORMATION:
; APPLICANT: Wei, Bo
; APPLICANT: Luche, Ralf M.
; TITLE OF INVENTION: DSP-9 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.415
; CURRENT APPLICATION NUMBER: US/09/544,716
; CURRENT FILING DATE: 2000-04-10
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-544-716-12

Query Match      100.0%; Score 52; DB 4; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
|||||
Db      110 VHCLAGISRS 119

RESULT 10
US-09-544-716-14
; Sequence 14, Application US/09544716
; Patent No. 6492157
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-9 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.415
; CURRENT APPLICATION NUMBER: US/09/544,716
; CURRENT FILING DATE: 2000-04-10
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-544-716-14

Query Match      100.0%; Score 52; DB 4; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
|||||
Db      110 VHCLAGISRS 119

RESULT 11
US-09-557-921-12
; Sequence 13, Application US/09557921
; Patent No. 6551810
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-10 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.416
; CURRENT APPLICATION NUMBER: US/09/557,921
; CURRENT FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-557-921-13

Query Match      100.0%; Score 52; DB 4; Length 168;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
|||||
Db      108 VHCLAGISRS 117

RESULT 7
US-09-564-357-16
; Sequence 16, Application US/09564357
; Patent No. 6645753
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-5 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.413
; CURRENT APPLICATION NUMBER: US/09/564,357
; CURRENT FILING DATE: 2000-04-24
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-564-357-16

Query Match      100.0%; Score 52; DB 4; Length 168;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
|||||
Db      108 VHCLAGISRS 117

RESULT 8
US-09-619-380-15
; Sequence 15, Application US/09619380
; Patent No. 6649391
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-11 DUAL SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.418
; CURRENT APPLICATION NUMBER: US/09/619,380
; CURRENT FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSEQ for Windows Version 4.0
```

```
; Sequence 12, Application US/09557921
; Patent No. 6551810
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-10 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.416
; CURRENT APPLICATION NUMBER: US/09/557,921
; CURRENT FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-557-921-12

Query Match      100.0%; Score 52; DB 4; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 12
US-09-557-921-15
; Sequence 15, Application US/09557921
; Patent No. 6551810
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-10 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.416
; CURRENT APPLICATION NUMBER: US/09/557,921
; CURRENT FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-557-921-15

Query Match      100.0%; Score 52; DB 4; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 13
US-09-564-357-15
; Sequence 15, Application US/09564357
; Patent No. 6645753
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-5 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.413
; CURRENT APPLICATION NUMBER: US/09/564,357
; CURRENT FILING DATE: 2000-04-24
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-564-357-15

Query Match      100.0%; Score 52; DB 4; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 14
US-09-564-357-17
; Sequence 17, Application US/09564357
; Patent No. 6645753
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-5 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.413
; CURRENT APPLICATION NUMBER: US/09/564,357
; CURRENT FILING DATE: 2000-04-24
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-564-357-17

Query Match      100.0%; Score 52; DB 4; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 15
US-09-619-380-14
; Sequence 14, Application US/09619380
; Patent No. 6649391
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-11 DUAL SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.418
; CURRENT APPLICATION NUMBER: US/09/619,380
; CURRENT FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-619-380-14

Query Match      100.0%; Score 52; DB 4; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 16
US-09-619-380-16
; Sequence 16, Application US/09619380
; Patent No. 6649391
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-11 DUAL SPECIFICITY PHOSPHATASE
```



```
RESULT 21
US-09-270-767-44103
; Sequence 44103, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44103
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-44103

Query Match          98.1%; Score 51; DB 4; Length 207;
Best Local Similarity 90.0%; Pred. No. 0.037;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
|||||:||||
Db 96 VHCLAGVRS 105

RESULT 22
US-09-949-016-10488
; Sequence 10488, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10488
; LENGTH: 421
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10488

Query Match          98.1%; Score 51; DB 4; Length 421;
Best Local Similarity 90.0%; Pred. No. 0.078;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
|||||:||||
Db 325 VHCLAGVRS 334

RESULT 23
US-09-045-973-8
; Sequence 8, Application US/09045973
; Patent No. 6165767
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Guegler, Karl J.
; APPLICANT: Baughn, Mariah
; TITLE OF INVENTION: PROTEIN PHOSPHATASE RELATED MOLECULES
; NUMBER OF SEQUENCES: 9
```

```
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/045,973
; FILING DATE: Filed Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0491 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 226 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1495338
US-09-045-973-8

Query Match          92.3%; Score 48; DB 3; Length 226;
Best Local Similarity 80.0%; Pred. No. 0.15;
Matches 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
|||||:||||
Db 96 VHCLAGVRS 105

RESULT 24
US-09-744-072-32
; Sequence 32, Application US/09744072
; Patent No. 6825328
; GENERAL INFORMATION:
; APPLICANT: SCHERER, STEPHEN W.
; APPLICANT: MINASSIAN, BERGE A.
; APPLICANT: ROULEAU, GUY
; APPLICANT: DALGADO-ESCUETA, ANTONIO
; TITLE OF INVENTION: LAFORA'S DISEASE GENE
; FILE REFERENCE: 086671/0113
; CURRENT APPLICATION NUMBER: US/09/744,072
; CURRENT FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/093,495
; PRIOR FILING DATE: 1998-07-20
; PRIOR APPLICATION NUMBER: 60/130,269
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-744-072-32

Query Match          88.5%; Score 46; DB 4; Length 11;
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```
; Best Local Similarity 90.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

Qy 1 VHCLAGISRS 10
Db 1 VHCQAGISRS 10

; CURRENT APPLICATION NUMBER: US/09/619,380
; CURRENT FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4:
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-619-380-4

Query Match 88.5%; Score 46; DB 4; Length 24;
Best Local Similarity 90.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
Db 6 VHCQAGISRS 15

; RESULT 28
US-09-955-732A-17
; Sequence 17, Application US/09955732A
; Patent No. 6825021
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; TITLE OF INVENTION: DSP-15 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.433
; CURRENT APPLICATION NUMBER: US/09/955,732A
; CURRENT FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Conserved homology region from eight DSPs having
; OTHER INFORMATION: MAP-kinase phosphatase activity
US-09-955-732A-17

Query Match 88.5%; Score 46; DB 4; Length 24;
Best Local Similarity 90.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
Db 6 VHCQAGISRS 15

; RESULT 29
US-08-530-290-21
; Sequence 21, Application US/08530290
; Patent No. 5958721
; GENERAL INFORMATION:
; APPLICANT: Marshall, Christopher John
; APPLICANT: Ashworth, Alan
; APPLICANT: Hughes, David Anthony
; TITLE OF INVENTION: Methods for Screening of Substances for
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30

; Best Local Similarity 90.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

Qy 1 VHCLAGISRS 10
Db 1 VHCQAGISRS 10

; CURRENT APPLICATION NUMBER: US/09/544,716
; CURRENT FILING DATE: 2000-04-10
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-544-716-5

Query Match 88.5%; Score 46; DB 4; Length 23;
Best Local Similarity 90.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
Db 5 VHCQAGISRS 14

; RESULT 26
US-09-564-357-6
; Sequence 6, Application US/09564357
; Patent No. 6645753
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-5 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.413
; CURRENT APPLICATION NUMBER: US/09/564,357
; CURRENT FILING DATE: 2000-04-24
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-564-357-6

Query Match 88.5%; Score 46; DB 4; Length 23;
Best Local Similarity 90.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
Db 5 VHCQAGISRS 14

; RESULT 27
US-09-619-380-4
; Sequence 4, Application US/09619380
; Patent No. 6649391
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-11 DUAL SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.418
```

```
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/530,290
; FILING DATE: 14-DEC-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/GB94/00694
; FILING DATE: 31-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9402573.1
; FILING DATE: 10-FEB-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9307250.2
; FILING DATE: 07-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 084611-0000000US
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 45 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-530-290-21

Query Match      88.5%; Score 46; DB 2; Length 45;
Best Local Similarity 90.0%; Pred. No. 0.068;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      34 VHCQAGISRS 43

RESULT 30
US-08-530-290-19
; Sequence 19, Application US/08530290
; Patent No. 5958721
; GENERAL INFORMATION:
; APPLICANT: Marshall, Christopher John
; APPLICANT: Ashworth, Alan
; APPLICANT: Hughes, David Anthony
; TITLE OF INVENTION: Methods for Screening of Substances for
; TITLE OF INVENTION: Therapeutic Activity and Yeast for Use Therein
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/530,290
; FILING DATE: 14-DEC-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/GB94/00694
; FILING DATE: 31-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9402573.1
; FILING DATE: 10-FEB-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9307250.2
```

```
;
; FILING DATE: 07-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 084611-0000000US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 72 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-530-290-19

Query Match      88.5%; Score 46; DB 2; Length 72;
Best Local Similarity 90.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      26 VHCQAGISRS 35

RESULT 31
US-09-371-671B-7
; Sequence 7, Application US/09371671B
; Patent No. 6548743
; GENERAL INFORMATION:
; APPLICANT: Sheen, Jen
; APPLICANT: Chiu, Wan-Ling
; TITLE OF INVENTION: TRANSGENIC PLANTS EXPRESSING A
; TITLE OF INVENTION: DUAL-SPECIFICITY MAPK PHOSPHATASE AND USES THEREOF
; FILE REFERENCE: 00786/370002
; CURRENT APPLICATION NUMBER: US/09/371,671B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: 60/155,934
; PRIOR FILING DATE: 1999-01-14
; PRIOR APPLICATION NUMBER: 60/095,938
; PRIOR FILING DATE: 1998-08-10
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-371-671B-7

Query Match      88.5%; Score 46; DB 4; Length 87;
Best Local Similarity 90.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      34 VHCQAGISRS 43

RESULT 32
US-09-371-671B-8
; Sequence 8, Application US/09371671B
; Patent No. 6548743
; GENERAL INFORMATION:
; APPLICANT: Sheen, Jen
; APPLICANT: Chiu, Wan-Ling
; TITLE OF INVENTION: TRANSGENIC PLANTS EXPRESSING A
; TITLE OF INVENTION: DUAL-SPECIFICITY MAPK PHOSPHATASE AND USES THEREOF
; FILE REFERENCE: 00786/370002
; CURRENT APPLICATION NUMBER: US/09/371,671B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: 60/155,934
; PRIOR FILING DATE: 1999-01-14
```



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; PRIOR APPLICATION NUMBER: 60/095,938
; PRIOR FILING DATE: 1998-08-10
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-371-671B-8

Query Match      88.5%; Score 46; DB 4; Length 87;
Best Local Similarity 90.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      ||| |||||
Db      34 VHCQAGISRS 43

RESULT 33
US-07-988-273-4
; Sequence 4, Application US/07988273
; Patent No. 5512434
; GENERAL INFORMATION:
; APPLICANT: AARONSON, Stuart A.
; APPLICANT: BOTTARO, Donald P.
; APPLICANT: ISHIBASHI, Toshio
; APPLICANT: MIKI, Toru
; TITLE OF INVENTION: EXPRESSION CLONING OF A HUMAN
; TITLE OF INVENTION: PHOSPHATASE
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington, D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/988,273
; FILING DATE: 19921214
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 40399/182 NIHD
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
US-07-988-273-4

Query Match      88.5%; Score 46; DB 1; Length 117;
Best Local Similarity 90.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      ||| |||||
Db      63 VHCQAGISRS 72

RESULT 34
PCT-US93-12019-4
; Sequence 4, Application PC/TUS9312019
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; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: EXPRESSION CLONING OF A HUMAN
; TITLE OF INVENTION: PHOSPHATASE
; NUMBER OF SEQUENCES: 7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/12019
; FILING DATE:
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER: US 07/988,273
; FILING DATE: 14-DEC-1992
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
PCT-US93-12019-4

Query Match      88.5%; Score 46; DB 5; Length 117;
Best Local Similarity 90.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      ||| |||||
Db      63 VHCQAGISRS 72

RESULT 35
US-09-955-732A-7
; Sequence 7, Application US/09955732A
; Patent No. 6825021
; GENERAL INFORMATION:
; APPLICANT: Wei, Bo
; APPLICANT: Luche, Ralf M.
; TITLE OF INVENTION: DSP-15 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.433
; CURRENT APPLICATION NUMBER: US/09/955,732A
; CURRENT FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 154
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-732A-7

Query Match      88.5%; Score 46; DB 4; Length 154;
Best Local Similarity 90.0%; Pred. No. 0.25;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      ||| |||||
Db      95 VHCQAGISRS 104

RESULT 36
US-09-955-732A-8
; Sequence 8, Application US/09955732A
; Patent No. 6825021
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-15 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.433
; CURRENT APPLICATION NUMBER: US/09/955,732A
; CURRENT FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSEQ for Windows Version 4.0
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; SEQ ID NO 8
; LENGTH: 154
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-732A-8

Query Match      88.5%; Score 46; DB 4; Length 154;
Best Local Similarity 90.0%; Pred. No. 0.25;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      ||| |||||
Db      95 VHCQAGISRS 104

RESULT 37
US-09-955-732A-9
; Sequence 9, Application US/09955732A
; Patent No. 6825021
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-15 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.433
; CURRENT APPLICATION NUMBER: US/09/955,732A
; CURRENT FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 154
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-732A-9

Query Match      88.5%; Score 46; DB 4; Length 154;
Best Local Similarity 90.0%; Pred. No. 0.25;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      ||| |||||
Db      95 VHCQAGISRS 104

RESULT 38
US-09-544-716-15
; Sequence 15, Application US/09544716
; Patent No. 6492157
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-9 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.415
; CURRENT APPLICATION NUMBER: US/09/544,716
; CURRENT FILING DATE: 2000-04-10
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-544-716-15

Query Match      88.5%; Score 46; DB 4; Length 168;
Best Local Similarity 90.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      ||| |||||
Db      109 VHCQAGISRS 118

RESULT 39
US-09-557-921-16
; Sequence 16, Application US/09557921
; Patent No. 6551810
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-10 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.416
; CURRENT APPLICATION NUMBER: US/09/557,921
; CURRENT FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-557-921-16

Query Match      88.5%; Score 46; DB 4; Length 168;
Best Local Similarity 90.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      ||| |||||
Db      109 VHCQAGISRS 118

RESULT 40
US-09-564-357-18
; Sequence 18, Application US/09564357
; Patent No. 6645753
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-5 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.413
; CURRENT APPLICATION NUMBER: US/09/564,357
; CURRENT FILING DATE: 2000-04-24
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-564-357-18

Query Match      88.5%; Score 46; DB 4; Length 168;
Best Local Similarity 90.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      ||| |||||
Db      109 VHCQAGISRS 118

RESULT 41
US-09-619-380-17
; Sequence 17, Application US/09619380
; Patent No. 6649391
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-11 DUAL SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.418
; CURRENT APPLICATION NUMBER: US/09/619,380
; CURRENT FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-619-380-17
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Query Match 88.5%; Score 46; DB 4; Length 168;
 Best Local Similarity 90.0%; Pred. No. 0.27;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
 Db 109 VHCQAGISRS 118

RESULT 42

US-09-544-716-16
 ; Sequence 16, Application US/09544716
 ; Patent No. 6492157
 ; GENERAL INFORMATION:
 ; APPLICANT: Luche, Ralf M.
 ; APPLICANT: Wei, Bo
 ; TITLE OF INVENTION: DSP-9 DUAL-SPECIFICITY PHOSPHATASE
 ; FILE REFERENCE: 200125.415
 ; CURRENT APPLICATION NUMBER: US/09/544,716
 ; CURRENT FILING DATE: 2000-04-10
 ; NUMBER OF SEQ ID NOS: 20
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 16
 ; LENGTH: 169
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-544-716-16

Query Match 88.5%; Score 46; DB 4; Length 169;
 Best Local Similarity 90.0%; Pred. No. 0.27;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
 Db 109 VHCQAGISRS 118

RESULT 43

US-09-544-716-17
 ; Sequence 17, Application US/09544716
 ; Patent No. 6492157
 ; GENERAL INFORMATION:
 ; APPLICANT: Luche, Ralf M.
 ; APPLICANT: Wei, Bo
 ; TITLE OF INVENTION: DSP-9 DUAL-SPECIFICITY PHOSPHATASE
 ; FILE REFERENCE: 200125.415
 ; CURRENT APPLICATION NUMBER: US/09/544,716
 ; CURRENT FILING DATE: 2000-04-10
 ; NUMBER OF SEQ ID NOS: 20
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 17
 ; LENGTH: 169
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-544-716-17

Query Match 88.5%; Score 46; DB 4; Length 169;
 Best Local Similarity 90.0%; Pred. No. 0.27;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
 Db 109 VHCQAGISRS 118

RESULT 44

US-09-557-921-17
 ; Sequence 17, Application US/09557921
 ; Patent No. 6551810
 ; GENERAL INFORMATION:
 ; APPLICANT: Luche, Ralf M.
 ; APPLICANT: Wei, Bo
 ; TITLE OF INVENTION: DSP-10 DUAL-SPECIFICITY PHOSPHATASE

FILE REFERENCE: 200125.416
 ; CURRENT APPLICATION NUMBER: US/09/557,921
 ; CURRENT FILING DATE: 2000-04-20
 ; NUMBER OF SEQ ID NOS: 20
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 17
 ; LENGTH: 169
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-557-921-17

Query Match 88.5%; Score 46; DB 4; Length 169;
 Best Local Similarity 90.0%; Pred. No. 0.27;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
 Db 109 VHCQAGISRS 118

RESULT 45

US-09-557-921-18
 ; Sequence 18, Application US/09557921
 ; Patent No. 6551810
 ; GENERAL INFORMATION:
 ; APPLICANT: Luche, Ralf M.
 ; APPLICANT: Wei, Bo
 ; TITLE OF INVENTION: DSP-10 DUAL-SPECIFICITY PHOSPHATASE
 ; FILE REFERENCE: 200125.416
 ; CURRENT APPLICATION NUMBER: US/09/557,921
 ; CURRENT FILING DATE: 2000-04-20
 ; NUMBER OF SEQ ID NOS: 20
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 18
 ; LENGTH: 169
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-557-921-18

Query Match 88.5%; Score 46; DB 4; Length 169;
 Best Local Similarity 90.0%; Pred. No. 0.27;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
 Db 109 VHCQAGISRS 118

Search completed: August 31, 2005, 11:11:30
 Job time : 45 secs

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GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: September 1, 2005, 02:14:01 ; Search time 379 Seconds
(without alignments)
2232.071 Million cell updates/sec

Title: US-09-964-277-21
Perfect score: 2668
Sequence: 1 MLPLSLQTVFSLYFWNRR.....LKGVSQSFSGSMBIEVS 517

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-Q=/cgn2_1/USPTO.spool/US09964277/runat_31082005_120238_8492/app.query.fasta_1.711
-DB=Issued Patents NA -QFMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALLIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
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-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents NA.*
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4: /cgn2_6/prodata/1/ina/GH COMB.seq.*
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6: /cgn2_6/prodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2606	97.7	1998	US-09-816-494-3	Sequence 3, Appli
2	2606	97.7	3544	US-09-816-494-1	Sequence 1, Appli
3	844	31.6	2377	US-09-920-668-3	Sequence 3, Appli
4	842	31.6	2351	US-09-949-016-3250	Sequence 3250, Ap
5	741.5	27.8	13782	US-09-949-016-14992	Sequence 14992, A
6	308	11.5	2283	US-09-949-016-4617	Sequence 4617, Ap
7	308	11.5	2303	US-09-922-146-3	Sequence 3, Appli
8	289.5	10.9	1238	US-09-702-705-803	Sequence 803, App
9	289.5	10.9	1238	US-09-736-457-803	Sequence 803, App
10	289.5	10.9	1238	US-09-614-124B-803	Sequence 803, App
11	289.5	10.9	1238	US-09-671-325-803	Sequence 803, App
12	289.5	10.9	1238	US-09-589-184-803	Sequence 803, App

13	289.5	10.9	1238	4	US-09-658-824-803	Sequence 803, App
14	287	10.8	1619	4	US-09-702-705-801	Sequence 801, App
15	287	10.8	1619	4	US-09-736-457-801	Sequence 801, App
16	287	10.8	1619	4	US-09-614-124B-801	Sequence 801, App
17	287	10.8	1619	4	US-09-671-325-801	Sequence 801, App
18	287	10.8	1619	4	US-09-589-184-801	Sequence 801, App
19	287	10.8	1619	4	US-09-658-824-801	Sequence 801, App
20	287	10.8	2064	4	US-09-702-705-825	Sequence 825, App
21	287	10.8	2064	4	US-09-736-457-825	Sequence 825, App
22	287	10.8	2064	4	US-09-614-124B-825	Sequence 825, App
23	287	10.8	2064	4	US-09-671-325-825	Sequence 825, App
24	287	10.8	2064	4	US-09-589-184-825	Sequence 825, App
25	287	10.8	2064	4	US-09-658-824-825	Sequence 825, App
26	287	10.8	2109	4	US-09-016-434-1135	Sequence 1135, Ap
27	287	10.8	2109	4	US-09-702-705-826	Sequence 826, App
28	287	10.8	2109	4	US-09-736-457-826	Sequence 826, App
29	287	10.8	2109	4	US-09-023-655-946	Sequence 946, App
30	287	10.8	2109	4	US-09-614-124B-826	Sequence 826, App
31	287	10.8	2109	4	US-09-671-325-826	Sequence 826, App
32	287	10.8	2109	4	US-09-589-184-826	Sequence 826, App
33	287	10.8	2240	4	US-09-658-824-826	Sequence 826, App
34	287	10.8	2240	4	US-09-016-434-1100	Sequence 1100, Ap
35	287	10.8	2363	4	US-09-949-016-2210	Sequence 2210, Ap
36	287	10.8	2475	4	US-09-949-016-2615	Sequence 2615, Ap
37	287	10.8	4637	4	US-09-702-705-804	Sequence 804, App
38	287	10.8	4637	4	US-09-736-457-804	Sequence 804, App
39	287	10.8	4637	4	US-09-614-124B-804	Sequence 804, App
40	287	10.8	4637	4	US-09-671-325-804	Sequence 804, App
41	287	10.8	4637	4	US-09-589-184-804	Sequence 804, App
42	287	10.8	4637	4	US-09-658-824-804	Sequence 804, App
43	286	10.7	2000	4	US-09-016-434-1291	Sequence 1291, Ap
44	286	10.7	2000	4	US-09-919-497-10	Sequence 10, Appl
45	286	10.7	2015	4	US-09-949-016-4969	Sequence 4969, Ap

ALIGNMENTS

RESULT 1
US-09-816-494-3
; Sequence 3, Application US/09816494
; Patent No. 6664089
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel A.
; TITLE OF INVENTION: 38692 AND 21117, NOVEL DUAL SPECIFICITY
; FILE REFERENCE: 10448-030002
; CURRENT APPLICATION NUMBER: US/09/816,494
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/191,858
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1998
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-816-494-3

Alignment Scores:
Pred. No.: 7,16e-257 Length: 1998
Score: 2606.00 Matches: 516
Percent Similarity: 90.21% Conservative: 0
Best Local Similarity: 90.21% Mismatches: 1
Query Match: 97.68% Indels: 56
DB: 4 Gaps: 1

US-09-964-277-21 (1-517) x US-09-816-494-3 (1-1998)	
QY	1 MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArgArg 20
DB	281 ATGTTGCCCTCTCTCTCTCAGACTGTTTCTCAGTACTCTGCGTAACCTGGAGAGA 340
QY	21 AlaSerThrLeuPheThrCysLeuGln----- 29

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Db 341 |||||GCTTCAACTCTGTTCACTGCTTGCA-GGTGGGTTTGTGAGTTCCTCTCGTTGTTTCCT 399
Qy 29 ----- 29
Db 400 GGCCTCTGTGAAGGAAATCCACTCTAGTCCCTACCTGCATTTCTCAGCCTTGCTTACCT 459
Qy 29 ----- 29
Db 460 GTTGCCAAATTTGGGCCAACCCGAATTTCTCCAAATCTTTATCTTTGGTGGCCAGCAGAT 519
Qy 30 -----GlulMetGlnGlnAenGlylleGlyTyrValLeuAasnAlaSerAen 45
Db 520 GTTCCTCAACAGAGACTGATGCAGCAATGGGATTTGTTATGTGTTAAATGCCGCAAT 579
Qy 46 ThrCysProLysProAspPheIleProGluSerHisPheLeuArgValProValAasnAep 65
Db 580 ACCTGTCCAAAGCCTGACTTTATCCCGAGTCTCATTTCTCGCGTGTGCTGTGAATGAC 639
Qy 66 SerPheCysGluLysIleLeuProThrLeuAaspLysSerValAspPheIleGluLysAla 85
Db 640 AGCTTTTGTGAGAAAATTTTGGCGGTGGTGGCAAAATCAGTAGATTTTCATTGAGAAAGCA 699
Qy 86 LysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr 105
Db 700 AAAGCCTCCAAATGGATGGTCTAGTGCACTGTTAGTGGGATCTCCGCTCCGCCACC 759
Qy 106 lleAlaIleAlaTyrIleMetLysArgMetAspMetSerLeuAaspGluAlaTyrArgPhe 125
Db 760 ATCGCTATCGCTACATCATGATGAAGAGGATGGACATGCTTTAGATGAAGCTTACAGATT 819
Qy 126 ValLysGluLysArgProThrIleSerProAenPheAenPheLeuGlyGlnLeuLeuAasp 145
Db 820 GTGAAGAAAAAAGACCTACTATATCTCCAAATCTCAATTTTCTGGGCCAACTCCTGGAC 879
Qy 146 TyrGluLysLysIleLysAenGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeu 165
Db 880 TATGAGAGAGATTAAGAACACAGACTGGAGCATCAGGCCCAAGAGCAAACTCAAGCTG 939
Qy 166 LeuHisLeuGluLysProAsnGluProValProAlaValSerGluGlyGlyLysSer 185
Db 940 CTCGACCTGGAGAGCAAAATGAACCTGTCCTCTGCTGCTCAGAGGGTGGACAGAAAAAGC 999
Qy 186 GluThrProLeuSerProCysAlaaspSerAlaThrSerGluAlaAlaGlyGlnArg 205
Db 1000 GAGAGCCCCCTCAGTCCACCCTGTGCCACTCTGCTACCTCAGAGGCGACGAGCAAAAGG 1059
Qy 206 ProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeuAasp 225
Db 1060 CCGGTGCATCCCGCCAGCGTGCACGGTGCACGGTGCACCGCTGCTGTAGAGGAC 1119
Qy 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAaspArgLeuGluAaspSer 245
Db 1120 AGCCGCGTGTACAGCGCTCAGTGGCTGCACCTGTCCGACAGACAGGCTGGAAGACAGC 1179
Qy 246 AsnLysLeuLysArgSerPheSerLeuAaspIleLysSerValSerTyrSerAlaSerMet 265
Db 1180 AATAAGCTCAAGCGTTCTCTCTGGATATCAATCAAGTTTCATATTCAGCCAGCATG 1239
Qy 266 AlaAlaSerLeuHisGlyPheSerSerGluAaspAlaLeuGluTyrTyrLysProSer 285
Db 1240 GAGCATCTTACATGGCTTCTCCTCATCAGAAAGATGCTTTGGAATACTACAAACTTCC 1299
Qy 286 ThrThrLeuAaspGlyThrAenLysLeuCysGlnPheSerProValGlnGluLeuSerGlu 305
Db 1300 ACTACTCTGGATGGGACCAACAGCTATCCAGTTCTCCCTGTTCCAGGAATATCGGAG 1359
Qy 306 GlnThrProGluThrSerProAspLysGluGluAlaSerIleProLysLysLeuGlnThr 325
Db 1360 CAGACTCCCGAAACCAAGTCTCTATAGAGGAGGAGCCAGCATCCCAAGAAAGCTGAGACC 1419
Qy 326 AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerGly 345
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Db 1420 GCCAGGCTTCAGACGCCAGAGCAAGCATTTGGTTCGTCAGAACCCAGCAGCAGTGGC 1479
Qy 346 ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAasnTyr 365
Db 1480 ACCGCCAGAGGTCCTTTTATCTCTCCACTGTCATCGAAGTGGGAGCGTGGAGGACAAATTAC 1539
Qy 366 HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly 385
Db 1540 CACACCAAGCTTCTTTTTCGGCTTTTCCACAGCAGCAGACACCTCAGAACTCTGCTGGC 1599
Qy 386 LeuGlyLeuLysGlyTyrHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
Db 1600 CTGGGCTTAAAGGCTGGCACTGGCATATCTTGGCCCCCAGACCTCTACCCCTTCCCTG 1659
Qy 406 ThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
Db 1660 ACCAGCAGCTGGTATTTTGGCACAGAGTCTCTCACACTTCTACTCTGCTCAGCCATCTAC 1719
Qy 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAaspGln 445
Db 1720 GGAGGCACTGCCATTTACTCTGCCCTACAGCTGCAGCCAGCTGCCACCTTGGCGAGACCA 1779
Qy 446 ValTyrSerValArgArgGlnLysProSerAspArgAlaAaspSerArgSerTrp 465
Db 1780 GTCTATTCTGTGCGCAGCGCGCAGAACCAAGTCACAGAGCTGACTCGCGCGGAGCTGG 1839
Qy 466 HisGluGluSerProPheGluLysGlnPheLysArgArgSerCysGlnMetGluPheGly 485
Db 1840 CATGAAGAGAGCCCCCTTTGAAAAGCAGTTTAAACGCGAAGCTGCCAAATGGAATTTGGA 1899
Qy 486 GluSerIleMetSerGluAasnArgSerArgGluGluLeuGlyLysValGlySerGlnSer 505
Db 1900 GAGAGCATCATGTCCAGAGAACAGGTCCAGGGAAGAGCTGGGGAAAGTGGGCGAGTCAGTCT 1959
Qy 506 SerPheSerGlySerMetGluIleGluValSer 517
Db 1960 AGCTTTTCGGCGCAGCATGGAAATCATTTGAGGTCTCC 1995

RESULT 2
US-09-816-494-1
; Sequence 1, Application US/09816494
; Patent No. 6664089
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel A.
; TITLE OF INVENTION: 38692 AND 21117, NOVEL DUAL SPECIFICITY
; FILE OF INVENTION: PHOSPHATASE MOLECULES AND USES THEREFOR
; FILE REFERENCE: 10448-030002
; CURRENT APPLICATION NUMBER: US/09/816,494
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/191,858
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 3544
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (589)....(2583)
US-09-816-494-1

Alignment Scores:
Pred. No.: 2e-256 Length: 3544
Score: 2606.00 Matches: 516
Percent Similarity: 90.21% Conservative: 0
Best Local Similarity: 90.21% Mismatches: 1
Query Match: 97.68% Indels: 56
DB: 4 Gaps: 1

US-09-964-277-21 (1-517) x US-09-816-494-1 (1-3544)
Qy 1 MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArg 20
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Db 869 ATGTTGGCTCTCTCTTCAGACTGTTTCTCACTGTAATCTCTGGTAAACTGGAGAAGA 928
Qy 21 AlaSerThrLeuPheThrCysLeuGln-----29
Db 929 GCTTCAACTCTGTTCACTCTGCTTGCA-GGTGGGTTTGCTGAGTTCTCTGTTGTTTCCCT 987
Qy 29 -----29
Db 988 GGCCTCTGTGAAGAAATCCACTCTAGTCCCTACCTGCATTTCTCAGCCTTGCTTACCT 1047
Qy 29 -----29
Db 1048 GTTGCCAACTATGGGCCAACCCGAATTTCTCCCAATCTTTATCTTGGCTGCCAGCAGAT 1107
Qy 30 -----GluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsn 45
Db 1108 GTCCTCAACAGAGAGCTGATGAGCAGAAATGGATTTGTTATGTTAAATGCCAGCAAT 1167
Qy 46 ThrCysProLysProAspPheIleProGluSerHisPheLeuArgValProValAsnAsp 65
Db 1168 ACTGTCCAAAGCCTGACATTTATCCCGAGTCTCATTTCTCGGTGGCTGTGATGAC 1227
Qy 66 SerPheCysGluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAla 85
Db 1228 AGCTTTTGTGAGAAATTTTGGCTGGTGGACAAATCAGTAGATTTTCAATCAGAAAGCA 1287
Qy 86 LysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr 105
Db 1288 AAGCCCTCAATGGATGTGTTCTAGTGCACCTGTTAGCTGGATCTCCCGCTCCGCCACC 1347
Qy 106 IleAlaIleAlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPhe 125
Db 1348 ATCGCTATCGCTTACATCATGAAGAGATGGACATGTCCTTTAGATGAAGCTTACAGATTT 1407
Qy 126 ValLysGluLysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAsp 145
Db 1408 GTGAAGAAAGAAAGACCTACTATATCTCCAACTTCAATTTTCTGGGCCAACTCTCTGGAC 1467
Qy 146 TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLysLeu 165
Db 1468 TATGAGAAGAAGATTAAAGAACACAGACTGGAGCATCAGGGCCAAAGACCAACTCAAGCTG 1527
Qy 166 LeuHisLeuGluLysProHsnGluProValProAlaValSerGluGlyGlnLysSer 185
Db 1528 CTGCACCTGGAGAAGCAAAATGAACCTGTCCCTGCTGTCTCAGAGGCTGACAGAAAGC 1587
Qy 186 GluThrProLeuSerProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArg 205
Db 1588 GAGACGCCCTCAGTCCACCTGTGCGGACTGTCTACCTCAGAGGAGCAGACAAAGG 1647
Qy 206 ProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAsp 225
Db 1648 CCGGTGCATCCCGCCAGCGTGCAGCGTGCAGCGTGCAGCGTGCAGCGTGTAGAGGAC 1707
Qy 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
Db 1708 AGCCCGCTGTACAGCGCTCAGTGGGCTGCACTGTCCGACAGAGGCTGGGAAGACAGC 1767
Qy 246 AsnLysLeuLysArgSerPheSerLeuAspIleLysSerValSerTyrSerAlaSerMet 265
Db 1768 AATAAGCTCAAGGTTCTCTCTCTGGATATCAATCAGTTTCATATTCAGCCAGCATG 1827
Qy 266 AlaAlaSerLeuHisGlyPheSerSerSerGluAspAlaLeuGluTyrTyrLysProSer 285
Db 1828 GCAGATCTCTTACATGGCTTCTCTCATCAGAAGATGCTTTGGAATACTACAAACCTTCC 1887
Qy 286 ThrThrLeuAspGlyThrAsnLysLeuLysCysGlnPheSerProValGlnGluLeuSerGlu 305
Db 1888 ACTACTCTGATGGGACCAACAGCTATGCCAGTTCTCCCTGTTTCCAGGAACATATCGGAG 1947
Qy 306 GluThrProGluThrSerProAspLysGluGluAlaSerIleProLysLysLeuGlnThr 325

Db 1948 CAGACTCCGAAACACAGTCTCTGATAAGAGAGAAAGCCAGCATCCCAAGAACTCGAGACC 2007
Qy 326 AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerSerGly 345
Db 2008 GCCAGGCTTTCAGACAGCCAGAGCAAGGATTGCAATTCGGTTCAGAACCCAGCAGAGTGGC 2067
Qy 346 ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAspAsnTyr 365
Db 2068 ACCGCCAGAGAGTCCCTTTTATCTCTCACTGATCGAAGTGGGAGCGTGGAGCAATATAC 2127
Qy 366 HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly 385
Db 2128 CACACAGCTTCCCTTTTCGGCTTTTCCACAGCCAGCAGACCTCACGAAGTCTGCTGGC 2187
Qy 386 LeuGlyLeuLysGlyTrpHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
Db 2188 CTGGGCTTAAGGCTGCGACTCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTG 2247
Qy 406 ThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
Db 2248 ACCAGCAGCTGATATTTTCCACAGAGTCTCACATTTCTACTCTGCTCAGCCATCTAC 2307
Qy 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln 445
Db 2308 GGAGCGAGTCCAGTTACTCTGCTTACAGCTGACAGCCAGCTGCCCATTTGGAGACCAA 2367
Qy 446 ValTyrSerValArgArgGlnLysProSerAspArgAlaAspSerArgSerTrp 465
Db 2368 GTCTATTTCTGCGCAGCGCGCAGAGCAAGTACAGAGCTGACTCGCGCGGAGCTGG 2427
Qy 466 HisGluGluSerProPheGluLysGlnPheLysArgArgSerCysGlnMetGluPheGly 485
Db 2428 CATGAAGAGAGCGCCCTTTTAAAGCAGTTTAAACGCAAGCTGCCAAATGGAATTTGGA 2487
Qy 486 GluSerIleMetSerGluAsnArgSerArgGluGluLeuGlyLysValGlySerGlnSer 505
Db 2488 GAGAGCATCATGTTCAGAAACAGGTTCAGGGAAGAGCTGGGGAAGAGTGGGCAGTCACT 2547
Qy 506 SerPheSerGlySerMetGluIleLeuValSer 517
Db 2548 AGCTTTTGGCAGCATGGAAATCATTCAGGCTCTCC 2583

RESULT 3

US-09-920-668-3
; Sequence 3, Application US/09920668
; Patent No. 6482644
; GENERAL INFORMATION:
; APPLICANT: Lex M. Cowser
; APPLICANT: Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF DUAL SPECIFIC PHOSPHATASE 8 EXPRESSION
; FILE REFERENCE: RTS-0246
; CURRENT APPLICATION NUMBER: US/09/920,668
; CURRENT FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 49
; SEQ ID NO 3
; LENGTH: 2377
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (135) ... (2012)
US-09-920-668-3

Alignment Scores:
Pred. No.: 6,828-76 Length: 2377
Score: 844.00 Matches: 216
Percent Similarity: 52.99% Conservative: 59
Best Local Similarity: 41.62% Mismatches: 142
Query Match: 31.63% Indels: 102
DB: 4 Gaps: 19

US-09-964-277-21 (1-517) x US-09-920-668-3 (1-2377)


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QY 29 GlnGluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsnThrCysPro 48
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 669 AAGGATCTGATGACGCAAAATGAATAAGCTACGTCCTCAACGCCAGCAACTCTGCCCC 728

QY 49 LysProAspPheIleProGlnSerHisPheLeuArgValProValAsnAspSerPheCys 68
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 729 AAGCTGACTTCATCTGCGAGAGCGCTTCATGCGGTCCTCCATCAACGACAACTACTGT 788

QY 69 GluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAlaLysAlaSer 88
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 789 GAAAAACTGCTGCCCTGGCTGGACAAAGTCCATCGAGTTCATCGATAAAGCAAGCTCTCC 848

QY 89 AsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThrIleAlaIle 108
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 849 AGCTGCCAAGTCATGTCACCTGTCTGGCTGGCATCTCCGCTCTGCCACCATCGCCATC 908

QY 109 AlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPheValLysGlu 128
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 909 GCCTACATCATGAGAACCATGGGCATGTCTCCGACGACGCTACAGGTTCTGTGAGGAC 968

QY 129 LysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAspTyrGluLys 148
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 969 AGCGCCCGCTCATCTCGCCCAACTCAACTTCTCTGGGCCAGCTCTGTGAGTACGAGCGC 1028

QY 149 LysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeuLeuHisLeu 168
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1029 ACGCTGAAGCTCTGCGCCCGCTGAGGGCGACCCGGGC----- 1067

QY 169 GluLysProAsn-----GluProValProAlaValSerGluGlyGlnLysSer 185
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1068 ----ACCCCTCAGGAGCGCGGAGCTCGCCCGAGTCTCTGCGCGGGGCCCCGTGCCA 1124

QY 186 GluThrProLeuSerProProCysAlaAspSerAlaThr-----SerGluAlaAlaGly 203
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1125 CGCGTGCCA-----CCACTACCTCAGAGAGCGGTGCCACAGGGAATGCGGCTGCCAGG 1178

QY 204 GlnArgProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeu 223
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1179 GAGGCGCGCTGAGCGCGCGGGAGCCCCCGCGCCCCCACGCCCGCGCGC----- 1232

QY 224 GluAspSerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGlu 243
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1233 ----ACGAGCGCACTGAGCAGAGGCGCTCGCGGCTCTGCACCTCTCTCGGACGCGCTGAG 1289

QY 244 AspSerAsnLysLeuLysArgSerPheSerLeuAspIleLysSerValSerTyrSerAla 263
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1290 GACACTAACCGCTCAAGGCTCTTCTCCTTGACATCAAGTCTGCC----- 1337

QY 264 SerMetAlaAlaSerLeuHisGlyPheSerSerSerGluAspAlaLeuGluTyrTyrLys 283
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1338 -----TACGCC 1343

QY 284 ProSerThrThrLeuAspGlyThrAsn-----LysLeuCys 295
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1344 CTAGCAGCGGCGCCGACGCGCCCGGGCCCCCGGCCCCCGGCGAGGCCCGCCGAGCTCTGC 1403

QY 296 GlnPhe---SerPro-----ValGlnGluLeuSerGluGlnThrProGluThrSer 311
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1404 AAGCTGGACAGCGCGCGGGGCGCGCGCTGCGGCTGTCTCGCCCGACCGCGAC---AGC 1460

QY 312 ProAspLysGluGluAlaSerIleProLysLysLeuGlnThrAlaArgProSerAspSer 331
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1461 CCGGACCGCGCGCTGAGCGCGCCACCGCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1511

QY 332 GlnSerLysArgLeuHisSerValArgThrSerSerSerGlyThrAlaGlnArgSerLeu 351
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1512 -----CCGCGCGGCTCCCGCGCGC----- 1532

QY 352 LeuSerProLeuHisArgSerGlySerValGluAspAsnTyrHisThrSerPheLeuPhe 371
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1533 ----TCCCCCGCGCACAGCCTCGGC-----CTGAACCTTC 1562

QY 372 Gly-----LeuSerThrSerGlnGlnHisLeuThrLysSerAlaGlyLeuGlyLeu 388
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Db 1563 GGCGATCGGCGCGCGGACAGACTCCGCGACCGGCTCTCGGCGCCTGTGCGCGCCCGGGCTG 1622

QY 389 LysGly-----TrpHisSerAspIleLeuAlaProGln 399
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1623 CCGGCGCTGCGCACGCGCGCGCGCGCGGCTGGGCACCGCGCTTGACTCCGCCA--- 1679

QY 400 ThrSerThrProSerLeuThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyr 419
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1680 ---GGCACGCGCTGCGCCGACGCGCGCTGTGTCTCAGCCCGGAG----- 1721

QY 420 SerAlaSerAlaIleTyrGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeu 439
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1722 -----GGCGCACAGGGGCGGGGGTGTCTGTTCGGCCCTTCGCGCGCGGGCGGCC 1775

QY 440 ProThrCysGlyAspGlnValTyrSerValArgArgGlnLysProSerAspArgAla 459
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1776 CCGGACACGCGCGCGCGACGCTGCGCGCGCGGAGGAGCGAGGCTGAGCCCGG 1835

QY 460 AspSerArgArgSerTrpHisGluLeuSerProPheGluLysGlnPheLysArgArgSer 479
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1836 GACCGCGGACCGGCTGCGCGGAGGACCGCGCCCGGAGACGCGAGTTCAAGCGCGCAGC 1895

QY 480 CysGlnMetGluPheGlyGluSerIleMetSerGluAsnArgSerArg---GluGluLeu 498
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1896 TGCCAGATGGAGTTTCGAGAGGGC---ATGTTGAGGGGCGCGCGCGCGGAGGAGCTG 1952

QY 499 GlyLysValGlySerGlnSerSerPheSerGlySerMetGluIleLeuValSer 517
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 1953 GCGCGCTGCGCAAGCAGCGGAGCTTCTCGGCGAGCGTGGAGGTTCATCGAGGTGTCC 2009

RESULT 4
US-09-949-016-3250
; Sequence 3250, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3250
; LENGTH: 2351
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3250

Alignment Scores:
Pred. No.: 1,07e-75 Length: 2351
Score: 842.00 Matches: 216
Percent Similarity: 52.79% Conservative: 58
Best Local Similarity: 41.62% Mismatches: 143
Query Match: 31.56% Indels: 102
DB: 4 Gaps: 19

US-09-964-277-21 (1-517) x US-09-949-016-3250 (1-2351)

QY 29 GlnGluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsnThrCysPro 48
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 643 AAGGATCTGATGACGCAAAATGAATAAGCTACGTCCTCAACGCCAGCAACTCTGCCCC 702

QY 49 LysProAspPheIleProGlnSerHisPheLeuArgValProValAsnAspSerPheCys 68
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Db 703 AAGCTGACTTCATCTGCGAGAGCGGCTTCTATCGGGGTCCCCATCAACGACAACTACTGT 762
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QY	69	GlulysIleLeuProThrLeuAspLysSerValAspPheIleGluLysAlaLysAlaSer	88
DB	763	GAATAACTGTGCGCTGGCAAGTCATCGAGTTTCATCGATAAAGCCAAGCTCTCC	822
QY	89	AsnGlyCysValLeuValHisCysLysLeuAlaGlyIleSerArgSerAlaThrIleAlaIle	108
DB	823	AGCTGCCAAGCTCATGCTCCATCTGTGTGGTGGCATCTCCGCTCTCCACCATCGGCATC	882
QY	109	AlaTyrlleMetLysArgMetAspMetSerLeuAspGluAlaTyArgPheValLysGlu	128
DB	883	GCTTACATCATGAACCATGGCATGTCTCCGACGACGCCCTACAGTTCTGTGAAGGAC	942
QY	129	LysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAspTyrGluLys	148
DB	943	AGCGCGCGTCCATCTCGCCCAACTTCAACTTCTGTGGCCAGCTGTGTGGAGTACGAGCGC	1002
QY	149	LysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeuLeuHisLeu	168
DB	1003	AGCCTGAAGCTGTGGCGCGCTGCAGGGCGACCCGGGC-----	1041
QY	169	GlulysProAsn-----GluProValProAlaValSerGluGlyGlnLysSer	185
DB	1042	---ACCCCTCAGGACCGCGAGGCTCCGCCAGTCTCCGCCGCGCGCCCGCTGCCA	1098
QY	186	GluThrProLeuSerProProCysAlaAspSerAlaThr-----SerGluAlaAlaGly	203
DB	1099	CGGCTGCCA-----CCACCTACTCTAGAGAGCGCTGCCACAGGAATGCGGTGCCAGG	1152
QY	204	GlnArgProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeu	223
DB	1153	GAGGGCGGCTGAGCGGGGGAGGCCCCCGCGCCCCCGACCGCCCCCGGG-----	1206
QY	224	GluAspSerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGlu	243
DB	1207	---ACCAGCGCACTGCAGCAGGGGCTGCGCGGCTGCACCTCTCTCGGACCGCTGCAG	1263
QY	244	AspSerAsnLysLysLysArgSerPheSerLeuAspIleLysSerValSerTyrSerAla	263
DB	1264	GACACTAACCGCTCAAGCGCTCCTCTCCTGGACATCAAGTGTGC-----	1311
QY	264	SerMetAlaAlaSerLeuHisGlyPheSerSerSerGluAspAlaLeuGluTyrTyrLys	283
DB	1312	-----TAGGCC	1317
QY	284	ProSerThrThrLeuAspGlyThrAsn-----LysLeuCys	295
DB	1318	CCTAGCATCGCGCCGACGGCGCCCGGGCCCCCGACCGCGCGAGGCCCGAAGCTCTGC	1377
QY	296	GlnPhe---SerPro-----ValGlnGluLeuSerGluGlnThrProGluThrSer	311
DB	1378	AAGCTGGACAGCCCGTCCGGGGCGCGCGTGGGCTGTCTCGGCCCATCCCGGAC---AGC	1434
QY	312	ProAspLysGluGluAlaAlaSerIleProLysLysLeuGlnThrAlaArgProSerAspSer	331
DB	1435	CCGAGCGCGCGCTGTATGCGCGCCACGGCCCCCGCGCGCGCCCCCGGCC-----	1485
QY	332	GlnSerLysArgLeuHisSerValArgThrSerSerSerGlyThrAlaGlnArgSerLeu	351
DB	1486	-----CCCGCGGCTCTCCCGCGCGC-----	1506
QY	352	LeuSerProLeuHisArgSerGlySerValGluAspAsnTyrHisThrSerPheLeuPhe	371
DB	1507	---TCCCCCGCGCACGCTCGGC-----CTGAACCTTC	1536
QY	372	Gly-----LeuSerThrSerGlnGlnHisLeuThrLysSerAlaGlyLeuGlyLeu	388
DB	1537	GCGATGCGGCGCGCAGACTCCGGGACACGGCTCTCGGCCCTGTGCGCGCCCGGGCTG	1596
QY	389	LysGly-----TrpHisSerAspIleLeuAlaProGln	399
DB	1597	CCGGGCTGTGGCCAGCGCGCGCGCGCGCGCGCGCTGGGACACCGCGCTCGATCCGCCA---	1653

Qy	400	ThrSerThrProSerLeuThrSerSerTrpTyPheAlaThrGluSerSerHisPheTyr	415
Db	1654	---GGCACGGCTGCGCCGACGGGCCCTCTGGTGCTTCAGCCCGAG-----	1695
Qy	420	SerAlaSerAlaIleTyGlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeu	439
Db	1696	-----GGCGCACAGGGGGGGGGGGTGTGTTCGGCCCTTCGGCGGGGGGGCGCC	1749
Qy	440	ProThrCysGlyAspGlnValTyrSerValArgArgGlnTyrProSerAspArgAla	459
Db	1750	CCGGGACAGCGCGGCGAGCGACTCGCGCGCGGGAGGAGGAGCGGGCTGAGCCCCGG	1809
Qy	460	AspSerArgArgSerTrpHisGluGluSerProPheGluTyrGlnPheLysArgArgSer	479
Db	1810	GACCGCGGACCGGCTGGCCCGAGGAGCGCGGCCCCCGGAGACGCGAGTTCAAGCGCGCGACG	1865
Qy	480	CysGlnMetGluPheGlyGluSerIleMetSerGluAsnArgSerArg---GluGluLeu	498
Db	1870	TGCAGATGGAGTTCGAGGAGGCG---ATGTGGAGGGGGCGCGCGCGCGAGGAGCTG	1928
Qy	499	GlyIysValGlySerGlnSerSerPheSerGlySerMetGluIleIleGluValSer	517
Db	1927	CGCCCTTGGCAAGCAGGCGAGCTTCTCGGCGAGCGTGGAGGTCAATCAGGTGCC	1983

RESULT 5

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US-09-949-016-14992
; Sequence 14992, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASES, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14992
; LENGTH: 13782
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-14992

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Alignment Scores:

Alignment Scores:		
Pred. No.:	5.29e-64	13782
Score:	741.50	218
Percent Similarity:	41.64%	Matches: 56
Best Local Similarity:	33.33%	Mismatches: 144
Query Match:	27.79%	Indels: 241
DR:	4	Gaps: 21

US-09-964-277-21 (1-517) X US-09-949-016-14992 (1-13782)

Qy	28	LeuGlnGluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsnThrCys	47
	:::.....	
Db	9658	CTCCAGGATCTGATGACGCAAAATGGAATAAGTACGTCTCAACGCCAGCAACTCCTCG	971
Qy	48	ProLysProAspPheIleProGluSerHisPheLeuArgValProValAsnAspSerPhe	67
	:::.....	
Db	9718	CCCAAGCGCTGACTTCATCTGCAGAGCGCGCTTCATCGCGGTCCCCATCAACGACAACATAC	977
Qy	68	CysGluLysIleLeuProTrpLeuAspLysSerValAspPheIleGlu	83
	:::.....	
Db	9778	TGTGAAAAACTGCTGCCCTCGCTGGACAAGTCCATCGAGTTTCATCGG-TGAGTCTGCGGT	983
Oy	83	-----	83


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Percent Similarity: 51.95% Conservative: 46
Best Local Similarity: 32.03% Mismatches: 77
Query Match: 11.54% Indels: 34
DB: 4 Gaps: 6

US-09-964-277-21 (1-517) x US-09-949-016-4617 (1-2283)

QY 3 ProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArgAlaSer 22
Db 699 CCAGTGGGGCTGGGGCATCTTCCTGTCAGATCCTGCCAACCTCTATCTGGGCACT 758
QY 23 ThrLeuPheThrCysLeuGlnGluLeuMetGlnGlnAsnGlylleGlyTyrValLeuAsn 42
Db 759 GCCCGGGATTCGCCAATTTGGAGAGCTGGCCAAACTGGGCATCCGCTACATCTCAAT 818
QY 43 AlaSerAsnThrCysPro-----LysProAspPheIleProGluSerHis 57
Db 819 GTACCCCCCAACTCCCAACTTCTTCGAGAGATGGTGACTTT-----CAC 866
QY 58 PheLeuArgValProValAsnAspSerPheCysGluLysIleLeuProTrpLeuAspLys 77
Db 867 TACAAGCAGATCCCATCTCCGACCATCTGGAGCCAGAACCTGTCGGGTCTTTCGGGAG 926
QY 78 SerValAspPheIleGluLysAlaLysAlaSerAsnGlyCysValLeuValHisCysLeu 97
Db 927 GCCATTGAGTTCAATTGATGAGGCTTGTCCAGAACTGGCGGTGCTCGTCCACTGCTTG 986
QY 98 AlaGlyIleSerArgSerAlaThrIleAlaIleAlaTyrIleMetLysArgMetAspMet 117
Db 987 GCGGGGGTCAAGCTGCTGACCTGCTCAAGAGAGAGAGTCTAACATCTCCCAACTTC 1046
QY 1047 TCTCTCAAGATGCCTATGACCTGCTGAGAGAGAGAGTCTAACATCTCCCAACTTC 1106
QY 138 AsnPheLeuGlyGlnLeuLeuAspTyrGluLysIleLysAsnGlnThrGlyAlaSer 157
Db 1107 AACTTCATGGGCGAGTTGCTGACTTTGAGCGAGCTTG-----1145
QY 158 GlyProLysSerLysLeuLysLeuHisLeuGluLysProAsnGluProValProAla 177
Db 1146 -----CGGCTGGAGGAGCGCCACTCGCAGGAGCAG-----1175
QY 178 ValSerGluGlyGlnLysSerGluThrProLeuSerPro-----Pro 192
Db 1176 ----GGCAGTGGGGGCGAGCATCTGGGCTCCAAACCGCCCTCTCTTTCACACCCGCC 1232
QY 193 CysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArgProVal-----HisProAla 210
Db 1233 ACCAGTGATGGGCGCTTCGAGCTGGCCCGCCACCTAGGCGCCGCTGCGCGGCGCGCC 1292

RESULT 7
US-09-922-146-3
; Sequence 3, Application US/09922146
; Patent No. 6566133
; GENERAL INFORMATION:
; APPLICANT: Lex M. Cowser
; APPLICANT: Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF DUAL SPECIFIC PHOSPHATASE 9 EXPRESSION
; FILE REFERENCE: RTS-0252
; CURRENT APPLICATION NUMBER: US/09/922,146
; CURRENT FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 48
; SEQ ID NO 3
; LENGTH: 2303
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS

; LOCATION: (114)...(1268)
US-09-922-146-3
Alignment Scores:
Pred. No.: 6,646-21 Length: 2303
Score: 308.00 Matches: 74
Percent Similarity: 51.95% Conservative: 46
Best Local Similarity: 32.03% Mismatches: 77
Query Match: 11.54% Indels: 34
DB: 4 Gaps: 6

US-09-964-277-21 (1-517) x US-09-922-146-3 (1-2303)

QY 3 ProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArgAlaSer 22
Db 699 CCAGTGGGGCTGGGGCATCTTCCTGTCAGATCCTGCCAACCTCTATCTGGGCACT 758
QY 23 ThrLeuPheThrCysLeuGlnGluLeuMetGlnGlnAsnGlylleGlyTyrValLeuAsn 42
Db 759 GCCCGGGATTCGCCAATTTGGAGAGCTGGCCAAACTGGGCATCCGCTACATCTCAAT 818
QY 43 AlaSerAsnThrCysPro-----LysProAspPheIleProGluSerHis 57
Db 819 GTACCCCCCAACTCCCAACTTCTTCGAGAGATGGTGACTTT-----CAC 866
QY 58 PheLeuArgValProValAsnAspSerPheCysGluLysIleLeuProTrpLeuAspLys 77
Db 867 TACAAGCAGATCCCATCTCCGACCATCTGGAGCCAGAACCTGTCGGGTCTTTCGGGAG 926
QY 78 SerValAspPheIleGluLysAlaLysAlaSerAsnGlyCysValLeuValHisCysLeu 97
Db 927 GCCATTGAGTTCAATTGATGAGGCTTGTCCAGAACTGGCGGTGCTCGTCCACTGCTTG 986
QY 98 AlaGlyIleSerArgSerAlaThrIleAlaIleAlaTyrIleMetLysArgMetAspMet 117
Db 987 GCGGGGGTCAAGCTGCTGACCTGCTCAAGAGAGAGAGTCTAACATCTCCCAACTTC 1046
QY 1047 TCTCTCAAGATGCCTATGACCTGCTGAGAGAGAGAGTCTAACATCTCCCAACTTC 1106
QY 138 AsnPheLeuGlyGlnLeuLeuAspTyrGluLysIleLysAsnGlnThrGlyAlaSer 157
Db 1107 AACTTCATGGGCGAGTTGCTGACTTTGAGCGAGCTTG-----1145
QY 158 GlyProLysSerLysLeuLysLeuHisLeuGluLysProAsnGluProValProAla 177
Db 1146 -----CGGCTGGAGGAGCGCCACTCGCAGGAGCAG-----1175
QY 178 ValSerGluGlyGlnLysSerGluThrProLeuSerPro-----Pro 192
Db 1176 ----GGCAGTGGGGGCGAGCATCTGGGCTCCAAACCGCCCTCTCTTTCACACCCGCC 1232
QY 193 CysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArgProVal-----HisProAla 210
Db 1233 ACCAGTGATGGGCGCTTCGAGCTGGCCCGCCACCTAGGCGCCGCTGCGCGGCGCGCC 1292

RESULT 8
US-09-702-705-803
; Sequence 803, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedwick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
```

```
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 803
; LENGTH: 1238
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-702-705-803

Alignment Scores:
Pred. No.: 1,73e-19 Length: 1238
Score: 289.50 Matches: 72
Percent Similarity: 54.15% Conservative: 39
Best Local Similarity: 35.12% Mismatches: 69
Query Match: 10.85% Indels: 25
DB: 4 Gaps: 6

US-09-964-277-21 (1-517) x US-09-702-705-803 (1-1238)
QY 29 GlnGluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsnThrCysPro 48
Db 693 AGAGACATGCTGGAGCCCTGGGCATCAGGCTCTGTTGAATGTCCTCGGACTGCCCA 752
QY 49 LysProAspPheIleProGluSerHisPheLeuArgValProValAsnAspSerPheCys 68
Db 753 AAC---CACTTTGAAGGACACTATCAGTACAAAGTCATCCAGTGGAGAGATAACACCAAG 809
QY 69 GluLysIleLeuProTyrLeuAspLysSerValAspPheIleGluLysAlaLysAlaSer 88
Db 810 GCGGACATCAGCTCTGTTTCATGGAAGCCATAGAGTACATGATCGCGTGAAGACTGC 869
QY 89 AsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThrIleAlaIle 108
Db 870 CGTGGCGGGTGTCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 929
QY 109 AlaTyrIleMetLysArgMetAspMetSerLysSerValAspGluAlaTyrArgPheValLysGlu 128
Db 930 GCCTACCTGATGATGAAGAAACGGGTGAGCGTGGAGAGGCGCTTCGAGTTCTGTTAAGCAG 989
QY 129 LysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAspTyrGluLys 148
Db 990 CGCGCAGCATCATCTCGCCCACTTCAGTTTCATGGGGCAGCTGCTGAGTTTCGAGTCC 1049
QY 149 LysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLysLeuLysLeuHisLeu 168
Db 1050 CAGGTGCTGGCCACGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1088
QY 169 GluLysProAsnGluProValProAlaValSerGluGlyGlnLysSerGluThrPro 188
Db 1089 -----CCCTCGGAGCCCTG-----GGGAGCGGGGCAAGACCCCC 1124
QY 189 LeuSerProProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArgProValHis 208
Db 1125 GCCACCCCC-----ACCTCGCAGTTCGTTCTCAGCTTTCGGTCTC--- 1163
QY 209 ProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAspSerProLeu 228
Db 1164 TCGGTGGGGTGCATCTCGGCCCCCAAGCAGCCTGCCCTACCTG-----CACAGCCCCCATC 1217
QY 229 ValGlnAlaLeuSer 233
Db 1218 ACCACCTCTCCACG 1232

RESULT 9
US-09-736-457-803
; Sequence 803, Application US/09736457
; Patent No. 6509448
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QY 189 LeuSerProProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArgProValHis 208
 Db 1125 GCCACCCC-----ACCTCGCAGTTTCGTTCTCCGCTC--- 1163
 QY 209 ProAlaSerValProSerValGlnProSerLeuLeuGluAspSerProLeu 228
 Db 1164 TCCGTGGCGGTGACTCGGCCCCAGCAGCTGCTACCTG-----CACAGCCCATC 1217
 QY 229 ValGlnAlaLeuSer 233
 Db 1218 ACCACCTCTCCAGC 1232
 RESULT 11
 US-09-671-325-803
 ; Sequence 803, Application US/09671325
 ; Patent No. 6667154
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Tongtong
 ; APPLICANT: Bangur, Chaitanya S.
 ; APPLICANT: Lodes, Michael A.
 ; APPLICANT: Fanger, Gary
 ; APPLICANT: Vedvick, Tom
 ; APPLICANT: Carter, Darrick
 ; APPLICANT: Retter, Marc
 ; APPLICANT: Mannion, Jane
 ; APPLICANT: Fan, Liqun
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 ; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
 ; FILE REFERENCE: 210121.478C12
 ; CURRENT APPLICATION NUMBER: US/09/671,325
 ; CURRENT FILING DATE: 2000-09-26
 ; NUMBER OF SEQ ID NOS: 1825
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 803
 ; LENGTH: 1238
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 US-09-671-325-803
 Alignment Scores:
 Pred. No.: 1,738-19 Length: 1238
 Score: 289.50 Matches: 72
 Percent Similarity: 54.15% Conservative: 39
 Best Local Similarity: 35.12% Mismatches: 69
 Query Match: 10.85% Indels: 25
 DB: 4 Gaps: 6
 US-09-964-277-21 (1-517) x US-09-671-325-803 (1-1238)
 QY 29 GlnGluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsnThrCysPro 48
 Db 693 AGAGACATGCTGGACGCCCTGGGCATCACGGCTCTGTGAATGCTCTCTCGGACTGCCCA 752
 QY 49 LysProAspPheIleProGluSerHisPheLeuArgValProValAsnAspSerPheCys 68
 Db 753 AAC---CACTTTGAAGGACACTATCAGTACAAAGTGCATCCAGTGGAGATACACCAAG 809
 QY 69 GluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAlaLysAlaSer 88
 Db 810 GCCGACATCAGCTCTCGTTCATGGAAGCCATAGAGTACATCATGCTCCGTGAGGACTGC 869
 QY 89 AsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThrIleAlaIle 108
 Db 870 CGTGGCGGTGCTGGTGCATCGCCAGGGGGCATCTCGGGTCCGCCACCATCTGCCTG 929
 QY 109 AlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPheValLysGlu 128
 Db 930 GCCTACCTGATGATGAAGAAACGGGTGAGCTGGAGGAGCCCTTCGAGTTCGTTAAGCAG 989
 QY 129 LysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuAspTyrGluLys 148
 Db 990 CGCCGACGACATCATCTCGCCCAACTTCAGCTTCATGGGGGAGCTGTGTCAGTTCGAGTCC 1049
 QY 149 LysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeuHisLeu 168
 Db 1050 CAGTGTGGCCAGCTCTGTGCTGGAGGCTGCTAGC----- 1088
 QY 169 GluLysProAsnGluProValProAlaValSerGluGlyGlnLysSerGluThrPro 188
 Db 1089 -----CCCTCGGACCCCTG-----GGGAGCGGGGCAAGACCC 1124

QY 229 ValGlnAlaLeuSer 233
 Db 1218 ACCACCTCTCCAGC 1232
 RESULT 10
 US-09-614-124B-803
 ; Sequence 803, Application US/09614124B
 ; Patent No. 6630574
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Tongtong
 ; APPLICANT: Bangur, Chaitanya S.
 ; APPLICANT: Lodes, Michael A.
 ; APPLICANT: Fanger, Gary
 ; APPLICANT: Vedvick, Tom
 ; APPLICANT: Carter, Darrick
 ; APPLICANT: Retter, Marc
 ; APPLICANT: Mannion, Jane
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
 ; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
 ; FILE REFERENCE: 210121.478C9
 ; CURRENT APPLICATION NUMBER: US/09/614,124B
 ; CURRENT FILING DATE: 2001-07-11
 ; NUMBER OF SEQ ID NOS: 1668
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 803
 ; LENGTH: 1238
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 US-09-614-124B-803
 Alignment Scores:
 Pred. No.: 1,738-19 Length: 1238
 Score: 289.50 Matches: 72
 Percent Similarity: 54.15% Conservative: 39
 Best Local Similarity: 35.12% Mismatches: 69
 Query Match: 10.85% Indels: 25
 DB: 4 Gaps: 6
 US-09-964-277-21 (1-517) x US-09-614-124B-803 (1-1238)
 QY 29 GlnGluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsnThrCysPro 48
 Db 693 AGAGACATGCTGGACGCCCTGGGCATCACGGCTCTGTGAATGCTCTCTCGGACTGCCCA 752
 QY 49 LysProAspPheIleProGluSerHisPheLeuArgValProValAsnAspSerPheCys 68
 Db 753 AAC---CACTTTGAAGGACACTATCAGTACAAAGTGCATCCAGTGGAGATACACCAAG 809
 QY 69 GluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAlaLysAlaSer 88
 Db 810 GCCGACATCAGCTCTCGTTCATGGAAGCCATAGAGTACATCATGCTCCGTGAGGACTGC 869
 QY 89 AsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThrIleAlaIle 108
 Db 870 CGTGGCGGTGCTGGTGCATCGCCAGGGGGCATCTCGGGTCCGCCACCATCTGCCTG 929
 QY 109 AlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPheValLysGlu 128
 Db 930 GCCTACCTGATGATGAAGAAACGGGTGAGCTGGAGGAGCCCTTCGAGTTCGTTAAGCAG 989
 QY 129 LysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuAspTyrGluLys 148
 Db 990 CGCCGACGACATCATCTCGCCCAACTTCAGCTTCATGGGGGAGCTGTGTCAGTTCGAGTCC 1049
 QY 149 LysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeuHisLeu 168
 Db 1050 CAGTGTGGCCAGCTCTGTGCTGGAGGCTGCTAGC----- 1088
 QY 169 GluLysProAsnGluProValProAlaValSerGluGlyGlnLysSerGluThrPro 188
 Db 1089 -----CCCTCGGACCCCTG-----GGGAGCGGGGCAAGACCC 1124

Db	810	GCCGACATCAGCTCTCGTTCATGGAAGCATAGAGTACATCATGATCGCGTGAAGCACTGC	869
Qy	89	AnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThrIleAlaIle	108
Db	870	CGTGGCGGCTGCTGGTGCACATGCGAGGGGATCTCGCGTGGCCACCATCTGCCTG	929
Qy	109	AlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPheValLysGlu	128
Db	930	GCTACCTGATGATGAAGAACGGGTGAGGCTGGAGAGGCTTCGAGTTCTGTTAAGCAG	989
Qy	129	LysArgProThrIleSerProAsnPheAsnGlyGlnLeuLeuAspTyrGluLys	148
Db	990	CGCCGAGCATCATCTCGCCCACTTCAGTTTCATGGGCGAGCTGCTGCAGTTTCAGTCC	1049
Qy	149	LysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeuHisLeu	168
Db	1050	CAGGTGCTGCCACGCTCTGCTGCGGAGGCTGTAGC-----	1088
Qy	169	GluLysProAsnGluProValProAlaValSerGluGlyGlnLysSerGluThrPro	188
Db	1089	-----CCCTCGGACCCCTG-----GGGAGCGGGGCAAGACCCCC	1124
Qy	189	LeuSerProProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArgProValHis	208
Db	1125	GCACACCC-----ACCTGCGAGTTCGTTCTTCAGCTTTCGCGTCTC-----	1163
Qy	209	ProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAspProLeu	228
Db	1164	TCGTGGGGGTGCATCTGCGCCCGCCAGCAGCCTGCTACCTG-----CACAGCCCATC	1217
Qy	229	ValGlnAlaLeuSer	233
Db	1218	ACCACCTCTCCAGC	1232
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; Sequence 801, Application US/09702705			
; Patent No. 6504010			
; GENERAL INFORMATION:			
; APPLICANT: Wang, Tongtong			
; APPLICANT: Bangur, Chaitanya S.			
; APPLICANT: Lodes, Michael A.			
; APPLICANT: Fanger, Gary			
; APPLICANT: Vedvick, Tom			
; APPLICANT: Carter, Darrick			
; APPLICANT: Retter, Marc			
; APPLICANT: Mannion, Jane			
; APPLICANT: Fan, Liqun			
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND			
; FILE REFERENCE: 210121.478C14			
; CURRENT APPLICATION NUMBER: US/09/702,705			
; CURRENT FILING DATE: 2000-10-30			
; NUMBER OF SEQ ID NOS: 1833			
; SOFTWARE: FastSeq for Windows Version 3.0			
; SEQ ID NO 801			
; LENGTH: 1619			
; TYPE: DNA			
; ORGANISM: Homo sapien			
US-09-702-705-801			
Alignment Scores:			
Pred. No.:	5.05e-19	Length:	1619
Score:	287.00	Matches:	73
Percent Similarity:	55.02%	Conservative:	42
Best Local Similarity:	34.93%	Mismatches:	69
Query Match:	10.76%	Indels:	25
DB:	4	Gaps:	6
US-09-964-277-21 (1-517) x US-09-702-705-801 (1-1619)			
Qy	29	GlnGluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsnThrCysPro	48
Alignment Scores:			
Pred. No.:	5.05e-19	Length:	1619

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 31, 2005, 11:02:23 ; Search time 159 Seconds

(without alignments)
24.712 Million cell updates/sec

Title: US-09-964-277-16

Perfect score: 52

Sequence: 1 VHCLAGISRS 10

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Gapop 10.0 , Gapext 0.5

Searched: 1767149 seqs, 392926209 residues

Total number of hits satisfying chosen parameters: 1767149

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Published Applications AA:*

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- 3: /cgn2_6/prodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep.*
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- 13: /cgn2_6/prodata/2/pubpaa/US10A_PUBCOMB.pep.*
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- 19: /cgn2_6/prodata/2/pubpaa/US11A_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	52	100.0	23	18	US-10-029-345A-103
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4	52	100.0	41	9	US-09-964-277-13
5	52	100.0	140	17	US-10-803-738-12
6	52	100.0	140	18	US-10-029-345A-134
7	52	100.0	141	17	US-10-803-738-7
8	52	100.0	141	17	US-10-803-738-8
9	52	100.0	155	9	US-09-964-277-6
10	52	100.0	155	9	US-09-964-277-7
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13	52	100.0	156	9	US-09-964-277-4	Sequence 4, Appli
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15	52	100.0	156	9	US-09-955-732-4	Sequence 4, Appli
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17	52	100.0	168	9	US-09-775-925-24	Sequence 24, Appli
18	52	100.0	168	9	US-09-847-519A-9	Sequence 9, Appli
19	52	100.0	168	14	US-10-314-058-13	Sequence 13, Appli
20	52	100.0	168	14	US-10-405-078-15	Sequence 15, Appli
21	52	100.0	168	15	US-10-655-073-15	Sequence 15, Appli
22	52	100.0	168	17	US-10-962-126-24	Sequence 24, Appli
23	52	100.0	168	17	US-10-644-554-16	Sequence 16, Appli
24	52	100.0	168	18	US-10-658-661-12	Sequence 12, Appli
25	52	100.0	169	14	US-10-346-356-12	Sequence 12, Appli
26	52	100.0	169	14	US-10-346-356-15	Sequence 15, Appli
27	52	100.0	170	9	US-09-775-925-23	Sequence 23, Appli
28	52	100.0	170	9	US-09-775-925-26	Sequence 26, Appli
29	52	100.0	170	9	US-09-847-519A-8	Sequence 8, Appli
30	52	100.0	170	9	US-09-847-519A-11	Sequence 11, Appli
31	52	100.0	170	14	US-10-314-058-12	Sequence 12, Appli
32	52	100.0	170	14	US-10-314-058-14	Sequence 14, Appli
33	52	100.0	170	14	US-10-405-080-14	Sequence 14, Appli
34	52	100.0	170	14	US-10-405-808-16	Sequence 16, Appli
35	52	100.0	170	15	US-10-655-073-14	Sequence 14, Appli
36	52	100.0	170	15	US-10-655-073-16	Sequence 16, Appli
37	52	100.0	170	17	US-10-962-126-23	Sequence 23, Appli
38	52	100.0	170	17	US-10-962-126-26	Sequence 26, Appli
39	52	100.0	170	17	US-10-644-554-15	Sequence 15, Appli
40	52	100.0	170	17	US-10-644-554-17	Sequence 17, Appli
41	52	100.0	170	18	US-10-658-661-11	Sequence 11, Appli
42	52	100.0	170	18	US-10-658-661-13	Sequence 13, Appli
43	52	100.0	189	9	US-09-925-299-842	Sequence 842, App
44	52	100.0	189	10	US-09-925-299-842	Sequence 842, App
45	52	100.0	302	18	US-10-029-345A-191	Sequence 191, App
46	52	100.0	322	14	US-10-060-065-33	Sequence 33, Appli
47	52	100.0	322	14	US-10-059-585-54	Sequence 54, Appli
48	52	100.0	381	14	US-10-184-832-2	Sequence 2, Appli
49	52	100.0	381	16	US-10-029-345A-111	Sequence 111, App
50	52	100.0	419	16	US-10-472-380-2	Sequence 2, Appli
51	52	100.0	501	15	US-10-072-012-702	Sequence 702, App
52	52	100.0	517	9	US-09-964-277-21	Sequence 21, Appli
53	52	100.0	625	15	US-10-072-012-699	Sequence 699, App
54	52	100.0	625	18	US-10-029-345A-39	Sequence 39, Appli
55	52	100.0	625	18	US-10-029-345A-110	Sequence 110, App
56	52	100.0	662	15	US-10-072-012-258	Sequence 258, App
57	52	100.0	663	15	US-10-072-012-700	Sequence 700, App
58	52	100.0	663	18	US-10-029-345A-40	Sequence 40, Appli
59	52	100.0	664	18	US-10-029-345A-190	Sequence 190, App
60	52	100.0	665	9	US-09-816-494-2	Sequence 2, Appli
61	52	100.0	665	9	US-09-964-277-2	Sequence 2, Appli
62	52	100.0	665	15	US-10-094-749-2312	Sequence 2312, Ap
63	52	100.0	665	15	US-10-377-072-26	Sequence 26, Appli
64	52	100.0	665	15	US-10-072-012-680	Sequence 680, App
65	52	100.0	665	15	US-10-072-012-681	Sequence 681, App
66	52	100.0	665	15	US-10-168-506-14	Sequence 14, Appli
67	52	100.0	665	15	US-10-343-357-7	Sequence 7, Appli
68	52	100.0	665	15	US-10-257-026-2	Sequence 2, Appli
69	52	100.0	665	16	US-10-648-593-240	Sequence 240, App
70	52	100.0	665	16	US-10-648-593-247	Sequence 247, App
71	52	100.0	665	16	US-10-377-072-26	Sequence 26, Appli
72	52	100.0	665	16	US-10-370-715B-262	Sequence 262, App
73	52	100.0	665	17	US-10-838-181-14	Sequence 14, Appli
74	52	100.0	665	18	US-10-029-345A-42	Sequence 42, Appli
75	52	100.0	665	18	US-10-029-345A-109	Sequence 109, App
76	52	100.0	665	18	US-10-029-345A-148	Sequence 148, App
77	52	100.0	672	15	US-10-296-115-1359	Sequence 1259, Ap
78	52	100.0	680	15	US-10-072-012-256	Sequence 256, App
79	52	100.0	690	15	US-10-072-012-679	Sequence 679, App
80	52	100.0	690	15	US-10-072-012-703	Sequence 703, App
81	52	100.0	690	15	US-10-425-114-54204	Sequence 54204, A
82	51	98.1	10	18	US-10-658-661-3	Sequence 3, Appli
83	51	98.1	92	16	US-10-425-115-335209	Sequence 335209,
84	51	98.1	138	17	US-10-803-738-5	Sequence 5, Appli

85 51 98.1 140 18 US-10-029-345A-135 Sequence 135, Appl
86 51 98.1 141 17 US-10-803-738-9 Sequence 9, Appl
87 51 98.1 145 18 US-10-658-661-19 Sequence 19, Appl
88 51 98.1 156 9 US-09-964-277-5 Sequence 5, Appl
89 51 98.1 156 9 US-09-955-732-5 Sequence 5, Appl
90 51 98.1 157 9 US-09-775-925-25 Sequence 25, Appl
91 51 98.1 157 9 US-09-847-519A-10 Sequence 10, Appl
92 51 98.1 157 17 US-10-962-126-25 Sequence 25, Appl
93 51 98.1 162 15 US-10-104-047-3471 Sequence 3471, Ap
94 51 98.1 179 15 US-10-296-115-1179 Sequence 1179, Ap
95 51 98.1 184 14 US-10-151-320-15 Sequence 15, Appl
96 51 98.1 184 14 US-10-287-806-2 Sequence 2, Appl
97 51 98.1 184 15 US-10-264-237-2811 Sequence 2811, Ap
98 51 98.1 184 15 US-10-072-012-428 Sequence 428, App
99 51 98.1 184 15 US-10-072-012-429 Sequence 429, App
100 51 98.1 184 15 US-10-072-012-430 Sequence 430, App

ALIGNMENTS

RESULT 1

US-09-964-277-16
; Sequence 16, Application US/09964277
; Patent No. US20020137170A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-16 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.434
; CURRENT APPLICATION NUMBER: US/09/964,277
; CURRENT FILING DATE: 2001-09-25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-277-16

Query Match 100.0%; Score 52; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0071;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
| | | | | | | | | |
DB 1 VHCLAGISRS 10

RESULT 2

US-10-029-345A-103
; Sequence 103, Application US/10029345A
; Publication No. US20050130286A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL HUMAN PHOSPHATASES
; FILE REFERENCE: D0072.NP
; CURRENT APPLICATION NUMBER: US/10/029,345A
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: US 60/256,868
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 60/280,186
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 60/287,735
; PRIOR FILING DATE: 2001-05-01
; PRIOR APPLICATION NUMBER: US 60/295,848
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/300,465
; PRIOR FILING DATE: 2001-06-25
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 103
; LENGTH: 23

; TYPE: PRT
; ORGANISM: homo sapiens
US-10-029-345A-103

Query Match 100.0%; Score 52; DB 18; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
| | | | | | | | | |
DB 6 VHCLAGISRS 15

RESULT 3

US-10-029-345A-144
; Sequence 144, Application US/10029345A
; Publication No. US20050130286A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL HUMAN PHOSPHATASES
; FILE REFERENCE: D0072.NP
; CURRENT APPLICATION NUMBER: US/10/029,345A
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: US 60/256,868
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 60/280,186
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 60/287,735
; PRIOR FILING DATE: 2001-05-01
; PRIOR APPLICATION NUMBER: US 60/295,848
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/300,465
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 144
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-029-345A-144

Query Match 100.0%; Score 52; DB 18; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
| | | | | | | | | |
DB 6 VHCLAGISRS 15

RESULT 4

US-09-964-277-13
; Sequence 13, Application US/09964277
; Patent No. US20020137170A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-16 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.434
; CURRENT APPLICATION NUMBER: US/09/964,277
; CURRENT FILING DATE: 2001-09-25
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-277-13

Query Match 100.0%; Score 52; DB 9; Length 41;
Best Local Similarity 100.0%; Pred. No. 0.029;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY      1 VHCLAGISRS 10
      |||||
Db      11 VHCLAGISRS 20

RESULT 5
US-10-803-738-12
; Sequence 12, Application US/10803738
; Publication No. US20050014222A1
; GENERAL INFORMATION:
; APPLICANT: Belmont, John
; APPLICANT: Fletcher, Frederick
; APPLICANT: Chen, Alice
; APPLICANT: Jurecic, Roland
; APPLICANT: Colicos, Suzanne
; APPLICANT: Tan, Tse-Hua
; APPLICANT: Zhou, Guisheng
; TITLE OF INVENTION: Phosphatases Which Activate Map Kinase Pathways
; FILE REFERENCE: 99-383-B
; CURRENT APPLICATION NUMBER: US/10/803,738
; CURRENT FILING DATE: 2004-03-18
; PRIOR APPLICATION NUMBER: US/09/665,819A
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US 60/155,068
; PRIOR FILING DATE: 1999-09-21
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
; LENGTH: 140
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: MH3/6
US-10-803-738-12

Query Match      100.0%; Score 52; DB 17; Length 140;
Best Local Similarity 100.0%; Pred. No. 0.098;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      |||||
Db      84 VHCLAGISRS 93

RESULT 6
US-10-029-345A-134
; Sequence 134, Application US/10029345A
; Publication No. US20050130286A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL HUMAN PHOSPHATASES
; FILE REFERENCE: D0072.NP
; CURRENT APPLICATION NUMBER: US/10/029,345A
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: US 60/256,868
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 60/280,186
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 60/287,735
; PRIOR FILING DATE: 2001-05-01
; PRIOR APPLICATION NUMBER: US 60/295,848
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/300,465
; PRIOR FILING DATE: 2001-06-25
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 134
; LENGTH: 140
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-029-345A-134

Query Match      100.0%; Score 52; DB 18; Length 140;

QY      1 VHCLAGISRS 10
      |||||
Db      85 VHCLAGISRS 94

RESULT 7
US-10-803-738-7
; Sequence 7, Application US/10803738
; Publication No. US20050014222A1
; GENERAL INFORMATION:
; APPLICANT: Belmont, John
; APPLICANT: Fletcher, Frederick
; APPLICANT: Chen, Alice
; APPLICANT: Jurecic, Roland
; APPLICANT: Colicos, Suzanne
; APPLICANT: Tan, Tse-Hua
; APPLICANT: Zhou, Guisheng
; TITLE OF INVENTION: Phosphatases Which Activate Map Kinase Pathways
; FILE REFERENCE: 99-383-B
; CURRENT APPLICATION NUMBER: US/10/803,738
; CURRENT FILING DATE: 2004-03-18
; PRIOR APPLICATION NUMBER: US/09/665,819A
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US 60/155,068
; PRIOR FILING DATE: 1999-09-21
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: rMKP-3
US-10-803-738-7

Query Match      100.0%; Score 52; DB 17; Length 141;
Best Local Similarity 100.0%; Pred. No. 0.098;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
      |||||
Db      85 VHCLAGISRS 94

RESULT 8
US-10-803-738-8
; Sequence 8, Application US/10803738
; Publication No. US20050014222A1
; GENERAL INFORMATION:
; APPLICANT: Belmont, John
; APPLICANT: Fletcher, Frederick
; APPLICANT: Chen, Alice
; APPLICANT: Jurecic, Roland
; APPLICANT: Colicos, Suzanne
; APPLICANT: Tan, Tse-Hua
; APPLICANT: Zhou, Guisheng
; TITLE OF INVENTION: Phosphatases Which Activate Map Kinase Pathways
; FILE REFERENCE: 99-383-B
; CURRENT APPLICATION NUMBER: US/10/803,738
; CURRENT FILING DATE: 2004-03-18
; PRIOR APPLICATION NUMBER: US/09/665,819A
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US 60/155,068
; PRIOR FILING DATE: 1999-09-21
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Artificial
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;
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: rMKP-X
US-10-803-738-8

Query Match      100.0%; Score 52; DB 17; Length 141;
Best Local Similarity 100.0%; Pred. No. 0.098;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
    |||||
Db 85 VHCLAGISRS 94

RESULT 9
US-09-964-277-6
; Sequence 6, Application US/09964277
; Patent No. US20020137170A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-16 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.434
; CURRENT APPLICATION NUMBER: US/09/964,277
; CURRENT FILING DATE: 2001-09-25
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-277-6

Query Match      100.0%; Score 52; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
    |||||
Db 96 VHCLAGISRS 105

RESULT 10
US-09-964-277-7
; Sequence 7, Application US/09964277
; Patent No. US20020137170A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-16 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.434
; CURRENT APPLICATION NUMBER: US/09/964,277
; CURRENT FILING DATE: 2001-09-25
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-277-7

Query Match      100.0%; Score 52; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
    |||||
Db 96 VHCLAGISRS 105

RESULT 11
US-09-955-732-6
; Sequence 6, Application US/09955732
; Publication No. US20020182203A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-15 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.433
; CURRENT APPLICATION NUMBER: US/09/955,732
; CURRENT FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-732-6

Query Match      100.0%; Score 52; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
    |||||
Db 96 VHCLAGISRS 105

RESULT 12
US-09-964-277-3
; Sequence 3, Application US/09964277
; Patent No. US20020137170A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-16 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.434
; CURRENT APPLICATION NUMBER: US/09/964,277
; CURRENT FILING DATE: 2001-09-25
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-277-3

Query Match      100.0%; Score 52; DB 9; Length 156;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
    |||||
Db 97 VHCLAGISRS 106

RESULT 13
US-09-964-277-4
; Sequence 4, Application US/09964277
; Patent No. US20020137170A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-16 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.434
; CURRENT APPLICATION NUMBER: US/09/964,277
; CURRENT FILING DATE: 2001-09-25
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-277-4

Query Match      100.0%; Score 52; DB 9; Length 156;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
    |||||
Db 97 VHCLAGISRS 106
```

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
| | | | | | | | | |
Db 97 VHCLAGISRS 106

RESULT 14

US-09-955-732-3

; Sequence 3, Application US/09955732
; Publication No. US20020182203A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-15 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.433
; CURRENT APPLICATION NUMBER: US/09/955,732
; CURRENT FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-732-3

Query Match 100.0%; Score 52; DB 9; Length 156;

Best Local Similarity 100.0%; Pred. No. 0.11; Indels 0; Gaps 0;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
| | | | | | | | | |
Db 97 VHCLAGISRS 106

RESULT 15

US-09-955-732-4

; Sequence 4, Application US/09955732
; Publication No. US20020182203A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-15 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.433
; CURRENT APPLICATION NUMBER: US/09/955,732
; CURRENT FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-732-4

Query Match 100.0%; Score 52; DB 9; Length 156;

Best Local Similarity 100.0%; Pred. No. 0.11; Indels 0; Gaps 0;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
| | | | | | | | | |
Db 97 VHCLAGISRS 106

RESULT 16

US-10-346-356-13

; Sequence 13, Application US/10346356
; Publication No. US20030138931A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-10 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.416C1
; CURRENT APPLICATION NUMBER: US/10/346,356

; CURRENT FILING DATE: 2003-01-15
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 167
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-346-356-13

Query Match 100.0%; Score 52; DB 14; Length 167;

Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
| | | | | | | | | |
Db 108 VHCLAGISRS 117

RESULT 17

US-09-775-925-24

; Sequence 24, Application US/09775925
; Patent No. US20010049358A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-12 AND DSP-13 DUAL-SPECIFICITY
; FILE REFERENCE: 200125.420
; CURRENT APPLICATION NUMBER: US/09/775,925
; CURRENT FILING DATE: 2001-02-01
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-775-925-24

Query Match 100.0%; Score 52; DB 9; Length 168;

Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
| | | | | | | | | |
Db 108 VHCLAGISRS 117

RESULT 18

US-09-847-519A-9

; Sequence 9, Application US/09847519A
; Patent No. US20020102693A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-14 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.422
; CURRENT APPLICATION NUMBER: US/09/847,519A
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-847-519A-9

Query Match 100.0%; Score 52; DB 9; Length 168;

Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VHCLAGISRS 10
| | | | | | | | | |
Db 108 VHCLAGISRS 117

```
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-655-073-15

Query Match      100.0%; Score 52; DB 15; Length 168;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      108 VHCLAGISRS 117

RESULT 22
US-10-962-126-24
; Sequence 24, Application US/10962126
; Publication No. US20050058650A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-12 AND DSP-13 DUAL-SPECIFICITY
; TITLE OF INVENTION: PHOSPHATASES
; FILE REFERENCE: 200125.420C1
; CURRENT APPLICATION NUMBER: US/10/962,126
; CURRENT FILING DATE: 2004-10-08
; PRIOR APPLICATION NUMBER: US 09/775,925
; PRIOR FILING DATE: 2001-02-01
; PRIOR APPLICATION NUMBER: US 60/179,886
; PRIOR FILING DATE: 2000-02-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-962-126-24

Query Match      100.0%; Score 52; DB 17; Length 168;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      108 VHCLAGISRS 117

RESULT 23
US-10-644-554-16
; Sequence 16, Application US/10644554
; Publication No. US20050075489A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-5 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.413C1
; CURRENT APPLICATION NUMBER: US/10/644,554
; CURRENT FILING DATE: 2003-08-19
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-644-554-16

Query Match      100.0%; Score 52; DB 17; Length 168;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      108 VHCLAGISRS 117

; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-655-073-15

Query Match      100.0%; Score 52; DB 14; Length 168;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      108 VHCLAGISRS 117

RESULT 21
US-10-655-073-15
; Sequence 15, Application US/10655073
; Publication No. US20040043411A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-11 DUAL SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.418C1
; CURRENT APPLICATION NUMBER: US/10/655,073
; CURRENT FILING DATE: 2003-09-04
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 168
```



```
RESULT 24
US-10-658-661-12
; Sequence 12, Application US/10658661
; Publication No. US20050176124A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-3 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.408C2
; CURRENT APPLICATION NUMBER: US/10/658,661
; CURRENT FILING DATE: 2003-09-08
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-658-661-12
Query Match 100.0%; Score 52; DB 18; Length 168;
Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;
QY 1 VHCLAGISRS 10
Db 108 VHCLAGISRS 117
|||||

RESULT 25
US-10-346-356-12
; Sequence 12, Application US/10346356
; Publication No. US20030138931A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-10 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.416C1
; CURRENT APPLICATION NUMBER: US/10/346,356
; CURRENT FILING DATE: 2003-01-15
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 169
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-346-356-12
Query Match 100.0%; Score 52; DB 14; Length 169;
Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;
QY 1 VHCLAGISRS 10
Db 110 VHCLAGISRS 119
|||||

RESULT 26
US-10-346-356-15
; Sequence 15, Application US/10346356
; Publication No. US20030138931A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-10 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.416C1
; CURRENT APPLICATION NUMBER: US/10/346,356
; CURRENT FILING DATE: 2003-01-15
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 169
; TYPE: PRT
US-10-346-356-15
Query Match 100.0%; Score 52; DB 14; Length 169;
Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;
QY 1 VHCLAGISRS 10
Db 110 VHCLAGISRS 119
|||||

RESULT 27
US-09-775-925-23
; Sequence 23, Application US/09775925
; Patent No. US20010049358A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-12 AND DSP-13 DUAL-SPECIFICITY
; FILE REFERENCE: 200125.420
; CURRENT APPLICATION NUMBER: US/09/775,925
; CURRENT FILING DATE: 2001-02-01
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-775-925-23
Query Match 100.0%; Score 52; DB 9; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;
QY 1 VHCLAGISRS 10
Db 110 VHCLAGISRS 119
|||||

RESULT 28
US-09-775-925-26
; Sequence 26, Application US/09775925
; Patent No. US20010049358A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-12 AND DSP-13 DUAL-SPECIFICITY
; FILE REFERENCE: 200125.420
; CURRENT APPLICATION NUMBER: US/09/775,925
; CURRENT FILING DATE: 2001-02-01
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-775-925-26
Query Match 100.0%; Score 52; DB 9; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;
QY 1 VHCLAGISRS 10
Db 110 VHCLAGISRS 119
|||||

RESULT 29
US-09-847-519A-8
; Sequence 8, Application US/09847519A
```

```
; Patent No. US20020102693A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-14 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.422
; CURRENT APPLICATION NUMBER: US/09/847,519A
; CURRENT FILING DATE: 2001-05-01
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-847-519A-8

Query Match      100.0%; Score 52; DB 9; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 30
US-09-847-519A-11
; Sequence 11, Application US/09847519A
; Patent No. US20020102693A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-14 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.422
; CURRENT APPLICATION NUMBER: US/09/847,519A
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-847-519A-11

Query Match      100.0%; Score 52; DB 9; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 30
US-09-847-519A-11
; Sequence 11, Application US/09847519A
; Patent No. US20020102693A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-14 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.422
; CURRENT APPLICATION NUMBER: US/09/847,519A
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-847-519A-11

Query Match      100.0%; Score 52; DB 9; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 31
US-10-314-058-12
; Sequence 12, Application US/10314058
; Publication No. US20030119045A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-9 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.415C1
; CURRENT APPLICATION NUMBER: US/10/314,058
; CURRENT FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-314-058-12

Query Match      100.0%; Score 52; DB 14; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 31
US-10-314-058-12
; Sequence 12, Application US/10314058
; Publication No. US20030119045A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-9 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.415C1
; CURRENT APPLICATION NUMBER: US/10/314,058
; CURRENT FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-314-058-12

Query Match      100.0%; Score 52; DB 14; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 32
US-10-314-058-14
; Sequence 14, Application US/10314058
; Publication No. US20030119045A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-9 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.415C1
; CURRENT APPLICATION NUMBER: US/10/314,058
; CURRENT FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-314-058-14

Query Match      100.0%; Score 52; DB 14; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 33
US-10-405-808-14
; Sequence 14, Application US/10405808
; Publication No. US20030175829A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-4 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.410C1
; CURRENT APPLICATION NUMBER: US/10/405,808
; CURRENT FILING DATE: 2003-04-01
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-405-808-14

Query Match      100.0%; Score 52; DB 14; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 34
US-10-405-808-16
; Sequence 16, Application US/10405808
; Publication No. US20030175829A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-4 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.410C1
```

; CURRENT APPLICATION NUMBER: US/10/405,808
 ; CURRENT FILING DATE: 2003-04-01
 ; NUMBER OF SEQ ID NOS: 21
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 16
 ; LENGTH: 170
 ; TYPE: PRT
 ; ORGANISM: Homo sapien
 US-10-405-808-16

Query Match 100.0%; Score 52; DB 14; Length 170;
 Best Local Similarity 100.0%; Pred. No. 0.12;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
 Db 110 VHCLAGISRS 119

RESULT 35

US-10-655-073-14
 ; Sequence 14, Application US/10655073
 ; Publication No. US20040043411A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Luche, Ralf M.
 ; APPLICANT: Wei, Bo

; TITLE OF INVENTION: DSP-11 DUAL SPECIFICITY PHOSPHATASE
 ; FILE REFERENCE: 200125.418C1
 ; CURRENT APPLICATION NUMBER: US/10/655,073
 ; CURRENT FILING DATE: 2003-09-04
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 14
 ; LENGTH: 170
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens

US-10-655-073-14

Query Match 100.0%; Score 52; DB 15; Length 170;
 Best Local Similarity 100.0%; Pred. No. 0.12;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
 Db 110 VHCLAGISRS 119

RESULT 36

US-10-655-073-16
 ; Sequence 16, Application US/10655073
 ; Publication No. US20040043411A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Luche, Ralf M.
 ; APPLICANT: Wei, Bo

; TITLE OF INVENTION: DSP-11 DUAL SPECIFICITY PHOSPHATASE
 ; FILE REFERENCE: 200125.418C1
 ; CURRENT APPLICATION NUMBER: US/10/655,073
 ; CURRENT FILING DATE: 2003-09-04
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 16
 ; LENGTH: 170
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens

US-10-655-073-16

Query Match 100.0%; Score 52; DB 15; Length 170;
 Best Local Similarity 100.0%; Pred. No. 0.12;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
 Db 110 VHCLAGISRS 119

RESULT 37

US-10-962-126-23
 ; Sequence 23, Application US/10962126
 ; Publication No. US20050058650A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Luche, Ralf M.
 ; APPLICANT: Wei, Bo

; TITLE OF INVENTION: DSP-12 AND DSP-13 DUAL-SPECIFICITY
 ; TITLE OF INVENTION: PHOSPHATASES
 ; FILE REFERENCE: 200125.420C1
 ; CURRENT APPLICATION NUMBER: US/10/962,126
 ; CURRENT FILING DATE: 2004-10-08
 ; PRIOR APPLICATION NUMBER: US 09/775,925
 ; PRIOR FILING DATE: 2001-02-01
 ; PRIOR APPLICATION NUMBER: US 60/179,886
 ; PRIOR FILING DATE: 2000-02-02

; NUMBER OF SEQ ID NOS: 33
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 23
 ; LENGTH: 170
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens

US-10-962-126-23

Query Match 100.0%; Score 52; DB 17; Length 170;
 Best Local Similarity 100.0%; Pred. No. 0.12;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
 Db 110 VHCLAGISRS 119

RESULT 38

US-10-962-126-26
 ; Sequence 26, Application US/10962126
 ; Publication No. US20050058650A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Luche, Ralf M.
 ; APPLICANT: Wei, Bo

; TITLE OF INVENTION: DSP-12 AND DSP-13 DUAL-SPECIFICITY
 ; TITLE OF INVENTION: PHOSPHATASES
 ; FILE REFERENCE: 200125.420C1
 ; CURRENT APPLICATION NUMBER: US/10/962,126
 ; CURRENT FILING DATE: 2004-10-08
 ; PRIOR APPLICATION NUMBER: US 09/775,925
 ; PRIOR FILING DATE: 2001-02-01
 ; PRIOR APPLICATION NUMBER: US 60/179,886
 ; PRIOR FILING DATE: 2000-02-02

; NUMBER OF SEQ ID NOS: 33
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 26
 ; LENGTH: 170
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens

US-10-962-126-26

Query Match 100.0%; Score 52; DB 17; Length 170;
 Best Local Similarity 100.0%; Pred. No. 0.12;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VHCLAGISRS 10
 Db 110 VHCLAGISRS 119

RESULT 39

US-10-644-554-15
 ; Sequence 15, Application US/10644554
 ; Publication No. US20050075489A1
 ; GENERAL INFORMATION:

```
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-5 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.413C1
; CURRENT APPLICATION NUMBER: US/10/644,554
; CURRENT FILING DATE: 2003-08-19
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-644-554-15

Query Match      100.0%; Score 52; DB 17; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 40
US-10-644-554-17
; Sequence 17, Application US/10644554
; Publication No. US20050075489A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-5 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.413C1
; CURRENT APPLICATION NUMBER: US/10/644,554
; CURRENT FILING DATE: 2003-08-19
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-644-554-17

Query Match      100.0%; Score 52; DB 17; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 41
US-10-658-661-11
; Sequence 11, Application US/10658661
; Publication No. US20050176124A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-3 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.408C2
; CURRENT APPLICATION NUMBER: US/10/658,661
; CURRENT FILING DATE: 2003-09-08
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-658-661-11

Query Match      100.0%; Score 52; DB 18; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 42
US-10-658-661-13
; Sequence 13, Application US/10658661
; Publication No. US20050176124A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-3 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.408C2
; CURRENT APPLICATION NUMBER: US/10/658,661
; CURRENT FILING DATE: 2003-09-08
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-658-661-13

Query Match      100.0%; Score 52; DB 18; Length 170;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      110 VHCLAGISRS 119

RESULT 43
US-09-925-299-842
; Sequence 842, Application US/09925299
; Patent No. US20020055627A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA102
; CURRENT APPLICATION NUMBER: US/09/925,299
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCI/US00/05883
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1556
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 842
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-299-842

Query Match      100.0%; Score 52; DB 9; Length 189;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VHCLAGISRS 10
Db      99 VHCLAGISRS 108

RESULT 44
US-09-925-299-842
; Sequence 842, Application US/09925299
; Publication No. US20030040617A9
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA102
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; CURRENT APPLICATION NUMBER: US/09/925,299
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05883
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1556
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 842
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-299-842

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Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; Sequence 191, Application US/10029345A
; Publication No. US20050130286A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL HUMAN PHOSPHATASES
; FILE REFERENCE: D0072.NP
; CURRENT APPLICATION NUMBER: US/10/029,345A
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: US 60/256,868
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 60/280,186
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 60/287,735
; PRIOR FILING DATE: 2001-05-01
; PRIOR APPLICATION NUMBER: US 60/295,848
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/300,465
; PRIOR FILING DATE: 2001-06-25
; NUMBER OF SEQ ID NOS: 208
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US-10-029-345A-191

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Perfect score: 3332
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- 26: /cgn2_6/prodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	3106.2	93.2	5450	22	US-10-029-345A-108
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9	2950	88.5	3544	17	US-10-377-072-25	Sequence 25, Appl
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ALIGNMENTS

RESULT 1

US-09-964-277-20
; Sequence 20, Application US/09964277
; Patent No. US2002013170A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-16 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.434
; CURRENT APPLICATION NUMBER: US/09/964,277
; CURRENT FILING DATE: 2001-09-25
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 3332
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-277-20

Query Match 100.0%; Score 3332; DB 9; Length 3332;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3332; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-16 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.434
; CURRENT APPLICATION NUMBER: US/09/964,277
; CURRENT FILING DATE: 2001-09-25
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 3496
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-277-1

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QY 601 AGGTTGTGGCTCTGCTGAAAGTGAACCGGAAAAGTGTCTAAATTTGATAGCCGCCA 660
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QY 661 TTTTGTGGAATACAATACATCCCAATTTTGGAGGCCATTAATATCACTGTCTCAAGCTT 720
Db 661 TTTTGTGGAATACAATACATCCCAATTTTGGAGGCCATTAATATCACTGTCTCAAGCTT 720
QY 721 ATGAAGCGAAGGTTGCAACAGGACAAAGTGTAAATTACAGAGCTCATCCAGCATTCAGCG 780
Db 721 ATGAAGCGAAGGTTGCAACAGGACAAAGTGTAAATTACAGAGCTCATCCAGCATTCAGCG 780

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QY	781	AAACATAAGGTTGACATGATGATGACAGTTCAGAAAGGTTGTAGTTTACATCAAGTCCCAAA	840
Db	781	AAACATAAGGTTGACATGATGATGACAGTTCAGAAAGGTTGTAGTTTACATCAAGTCCCAAA	840
QY	841	GATGTTGCCCTCTCTCTTCAGACTGTTTCTCACTGATCTCTGGTAAACTGGAGAAG	900
Db	841	GATGTTGCCCTCTCTCTTCAGACTGTTTCTCACTGATCTCTGGTAAACTGGAGAAG	900
QY	901	AGCTTCAACTCTCTGTTCACTGCTTGC-----	926
Db	901	AGCTTCAACTCTCTGTTCACTGCTTGCAGGTGGGTTTGCTGAGTTCTCTGTTGTTCCCT	960
QY	927	-----	926
Db	961	GGCCTCTGTGAAGGAAATCCACTAGTCCCTACCTGCAATTTCTCAGCGCTTGCTTTACCT	1020
QY	927	-----	926
Db	1021	GTTCGCCAACAATGGGCOAACCCGAAATTCCTCCAAATCTTTATCTTGGCTGCCAGCAGAT	1080
QY	927	-----AGCAGCTGATGACAGCAGAATGGGATGGTTATGTGTTAAATGCCAGCAAT	976
Db	1081	GTCTCTCAACAGAGGCTGATGACAGCAGAATGGATGGTTATGTGTTAAATGCCAGCAAT	1140
QY	977	ACCTGTCCAAAGCCTGACTTTATCCCGAGTCTCATTTCTGCTGCTGTGCTGTGAATGAC	1036
Db	1141	ACCTGTCCAAAGCCTGACTTTATCCCGAGTCTCATTTCTGCTGCTGTGCTGTGAATGAC	1200
QY	1037	AGCTTTTGTGAGAAATTTTGGCGTGTGTTGGATCGAATTCAGTATCTTATTTGAGAAAGCA	1096
Db	1201	AGCTTTTGTGAGAAATTTTGGCGTGTGTTGGATCGAATTCAGTATCTTATTTGAGAAAGCA	1260
QY	1097	AAAGCCTCCAAATGGATGTGTTCTAGTGCACTGTTTAGCTGGGATCTCCCGCTCCGCCACC	1156
Db	1261	AAAGCCTCCAAATGGATGTGTTCTAGTGCACTGTTTAGCTGGGATCTCCCGCTCCGCCACC	1320
QY	1157	ATCGCTATCGCTACATCATGAAGAGGATGGACATGTCTTTTATGATGAAGCTTACAGATTT	1216
Db	1321	ATCGCTATCGCTACATCATGAAGAGGATGGACATGTCTTTTATGATGAAGCTTACAGATTT	1380
QY	1217	GTGAAGAAAGAAAGACCTACTATATCTCCAAATCTCAATTTCTGGGCCAACTCTCGGAC	1276
Db	1381	GTGAAGAAAGAAAGACCTACTATATCTCCAAATCTCAATTTCTGGGCCAACTCTCGGAC	1440
QY	1277	TATGAGAAAGAAATTAAGAACCCAGACTGGAGCATTCAGGGCCAAAGAGCAAACTCAAGCTG	1336
Db	1441	TATGAGAAAGAAATTAAGAACCCAGACTGGAGCATTCAGGGCCAAAGAGCAAACTCAAGCTG	1500
QY	1337	CTGCACTGAGAAAGCCAAATGAACCTGTCTGCTGTCTCAGAGGGTGACAGAAAGC	1396
Db	1501	CTGCACTGAGAAAGCCAAATGAACCTGTCTGCTGTCTCAGAGGGTGACAGAAAGC	1560
QY	1397	GAGAGCCCTCTGATCCACCTGTGCCGACTCTGCTACCTCAGAGGCAGCAGCAAAAGG	1456
Db	1561	GAGAGCCCTCTGATCCACCTGTGCCGACTCTGCTACCTCAGAGGCAGCAGCAAAAGG	1620
QY	1457	CCCGTGTATCCCGCCAGCGTCCCGAGCGTCCAGCGTGCAGCGCTCGCTGTTAGAGGAC	1516
Db	1621	CCCGTGTATCCCGCCAGCGTCCCGAGCGTGCAGCGTGCAGCGCTCGCTGTTAGAGGAC	1680
QY	1517	AGCCCGTGTATCAGGCGCTCAGTGGGCTGCACTGTGCCAGACAGGCTGGAAGACAGC	1576
Db	1681	AGCCCGTGTGTACAGGCGCTCAGTGGGCTGCACTGTGCCAGACAGGCTGGAAGACAGC	1740
QY	1577	AATAGCTCAAGCGTCTCTCTCTCGATATCAAAATCAGTTTCATATTCAGCCAGCATG	1636
Db	1741	AATAGCTCAAGCGTCTCTCTCTCGATATCAAAATCAGTTTCATATTCAGCCAGCATG	1800
QY	1637	GCAGCATCTTACATGGCTCTCTCTCATCAGAAAGATGCTTTGGAATACTACAAACCTTCC	1696
Db	1801	GCAGCATCTTACATGGCTCTCTCTCATCAGAAAGATGCTTTGGAATACTACAAACCTTCC	1860

QY	1697	ACTACTCTGGATGGAGCAACCAAGCTATGCCAGTTCTCCCTGTTCAGGAACTATCGGAG	1756
Db	1861	ACTACTCTGGATGGAGCAACCAAGCTATGCCAGTTCTCCCTGTTCAGGAACTATCGGAG	1920
QY	1757	CAGACTCCCGAAACCAAGTCTTGATAAGGAGGAAGCAGCATCCCCAAGAAGCTGCAGACC	1816
Db	1921	CAGACTCCCGAAACCAAGTCTTGATAAGGAGGAAGCAGCATCCCCAAGAAGCTGCAGACC	1980
QY	1817	GCCAGGCTTCAGACAGCCAGAGCAAGGATTTGCAATTCGGTTCAGAACCCAGCAGCAGTGCC	1876
Db	1981	GCCAGGCTTCAGACAGCCAGAGCAAGGATTTGCAATTCGGTTCAGAACCCAGCAGCAGTGCC	2040
QY	1877	ACGCGCCAGAGGTCCTTTTATCTCCACTGCAATCGAATCGGAGGCTGGAGGACAAATAC	1936
Db	2041	ACGCGCCAGAGGTCCTTTTATCTCCACTGCAATCGAATCGGAGGCTGGAGGACAAATAC	2100
QY	1937	CACACAGCTTCTTTTTCGGCCTTTCCACCAGCAGCAGCACTCACGAAGTCTGCTGGC	1996
Db	2101	CACACAGCTTCTTTTTCGGCCTTTCCACCAGCAGCAGCACTCACGAAGTCTGCTGGC	2160
QY	1997	CTGGGCTTTAAGGCTTGGCACTCGGATATCTTTGGCCCCCAGACCTCTACCCCTTCCCTG	2056
Db	2161	CTGGGCTTTAAGGCTTGGCACTCGGATATCTTTGGCCCCCAGACCTCTACCCCTTCCCTG	2220
QY	2057	ACCAGAGCTGATATTTTCCACAGAGTCTCACACTTCTACTCTGCTCAGCCTACCTAC	2116
Db	2221	ACCAGAGCTGATATTTTCCACAGAGTCTCACACTTCTACTCTGCTCAGCCTACCTAC	2280
QY	2117	GGAGGCAGTGCAGATTAATCTCTGCTTACAGCTGCAGCAGCTGCCCACTTTCGCGAGACCAA	2176
Db	2281	GGAGGCAGTGCAGATTAATCTCTGCTTACAGCTGCAGCAGCTGCCCACTTTCGCGAGACCAA	2340
QY	2177	GTCTATTCCTGCGCAGGCGCAGAAAGCAAGTGAAGAGCTGACTGCGGCGGAGCTGG	2236
Db	2341	GTCTATTCCTGCGCAGGCGCAGAAAGCAAGTGAAGAGCTGACTGCGGCGGAGCTGG	2400
QY	2237	CATGAAGAGAGCCCTTTTGAAGAGCAGTTTAAACCCAGAGCTGCCAAATGGAATTTGA	2296
Db	2401	CATGAAGAGAGCCCTTTTGAAGAGCAGTTTAAACCCAGAGCTGCCAAATGGAATTTGA	2460
QY	2297	GAGAGCATCATCTCAGAGAAACAGGTTCAGGGGAAGAGCTGGGGAAGTGGGCACTCAGTCT	2356
Db	2461	GAGAGCATCATCTCAGAGAAACAGGTTCAGGGGAAGAGCTGGGGAAGTGGGCACTCAGTCT	2520
QY	2357	AGCTTTTTCGGCAGCATGGAATTCATGTAGGTCTCTCTGAGAAAGAAAGACACTTGTGACTT	2416
Db	2521	AGCTTTTTCGGCAGCATGGAATTCATGTAGGTCTCTCTGAGAAAGAAAGACACTTGTGACTT	2580
QY	2417	CTATAGACAATTTTTCCTGTTTTCACAAAAAATTCCTCTGTAATCTGAAATATATAT	2476
Db	2581	CTATAGACAATTTTTCCTGTTTTCACAAAAAATTCCTCTGTAATCTGAAATATATAT	2640
QY	2477	ATGTACATACATATATATTTTTTGGAAAAATGGAGCTATGTTGTAATAAGCAACAGGTGATC	2536
Db	2641	ATGTACATACATATATATTTTTTGGAAAAATGGAGCTATGTTGTAATAAGCAACAGGTGATC	2700
QY	2537	AACCCAGTTGTTTACTCTCTTAAACATCTGCAATTTGAGAGATTCAGCTAAATCTTCTCAAC	2596
Db	2701	AACCCAGTTGTTTACTCTCTTAAACATCTGCAATTTGAGAGATTCAGCTAAATCTTCTCAAC	2760
QY	2597	AAAAATGGAGGCGCAGATCTAGAAATCCCTCAGACGGGAGGAAACCAATTTTATTCAGT	2656
Db	2761	AAAAATGGAGGCGCAGATCTAGAAATCCCTCAGACGGGAGGAAACCAATTTTATTCAGT	2820
QY	2657	GAATTACACATCTCTTGTCTTTAAAAAGCAAGTGTCTTTGGTGTGGAGGACAAAAATC	2716
Db	2821	GAATTACACATCTCTTGTCTTTAAAAAGCAAGTGTCTTTGGTGTGGAGGACAAAAATC	2880
QY	2717	CCCTACCATTTTCCAGGTTGTGCTACTAGAGATCTCAATATATTAGTCTTTGTCCGAC	2776
Db	2881	CCCTACCATTTTCCAGGTTGTGCTACTAGAGATCTCAATATATTAGTCTTTGTCCGAC	2940
QY	2777	CTTCCATAGTACACCTTTAGCGCTGAGACTGAGCCAGCTTTGGGGGTTCAGGTAGTAGACC	2836

Db 2941 CTTCCATAGTACACCTTAGCGCTGAGACTGAGCCAGCTTGGGGTTCAGTGGTAGACCC 3000
 Qy 2837 TGTTAGGACAGAGCTAGTGGTAAATCAAGAGAAATGATCCTATCAAAAGCTGATTCA 2896
 Db 3001 TGTTAGGACAGAGCTAGTGGTAAATCAAGAGAAATGATCCTATCAAAAGCTGATTCA 3060
 Qy 2897 CAAACCCACGCTCACTGACAGCCGAGGGACACAGAGCATCACTCTGTCTGGACGGACCAATT 2956
 Db 3061 CAAACCCACGCTCACTGACAGCCGAGGGACACAGAGCATCACTCTGTCTGGACGGACCAATT 3120
 Qy 2957 AGGGGCTTTGCCAAGGTCTA CTTTAGAGCAAAACCCAGTAGTACCTCAGACAGGAAAGTCGGGG 3016
 Db 3121 AGGGGCTTTGCCAAGGTCTA CTTTAGAGCAAAACCCAGTAGTACCTCAGACAGGAAAGTCGGGG 3180
 Qy 3017 CTTTGACCACTACCATATCTGGTAGCCCATTTCTAGGCATTTGTAGGCATTTGTAATAGGTAGTAGCT 3076
 Db 3181 CTTTGACCACTACCATATCTGGTAGCCCATTTCTAGGCATTTGTAGGCATTTGTAATAGGTAGTAGCT 3240
 Qy 3077 AGTCACACTTTTTCAGACCAATTTCAAACCTGTCTATGCACAAAATTCCTGGGGCTTAGATG 3136
 Db 3241 AGTCACACTTTTTCAGACCAATTTCAAACCTGTCTATGCACAAAATTCCTGGGGCTTAGATG 3300
 Qy 3137 GAGATAAATTTTTTTTCTTCTCAGCTTTATGAAGAGAGGGAACCTGTCTAGGATTCAGC 3196
 Db 3301 GAGATAAATTTTTTTTCTTCTCAGCTTTATGAAGAGAGGGAACCTGTCTAGGATTCAGC 3360
 Qy 3197 TGAACCAACAGAACCTGGCAACATCAGATTTAAGCTTAAGCTTGGGAGGCTTACGAGTC 3256
 Db 3361 TGAACCAACAGAACCTGGCAACATCAGATTTAAGCTTAAGCTTGGGAGGCTTACGAGTC 3420
 Qy 3257 TACCTCCCTCTTTGTAAATCAAAGAAATTTTAAATGGGATTTGCAATCCTTTAAATAA 3316
 Db 3421 TACCTCCCTCTTTGTAAATCAAAGAAATTTTAAATGGGATTTGCAATCCTTTAAATAA 3480
 Qy 3317 AGATGAACCTTGGTTTC 3332
 Db 3481 AGATGAACCTTGGTTTC 3496

RESULT 3
 US-10-425-114-26234
 ; Sequence 26234, Application US/10425114
 ; Publication No. US20040034888A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Jingdong
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Kovalic, David K.
 ; APPLICANT: Screen, Steven E.
 ; APPLICANT: Tabaska, Jack E.
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
 ; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 ; FILE REFERENCE: 38-21(53313)B
 ; CURRENT APPLICATION NUMBER: US/10/425,114
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 73128
 ; SEQ ID NO 26234
 ; LENGTH: 3625
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: LIB4119-028-H6_FLI
 US-10-425-114-26234

Query Match 94.4%; Score 3145; DB 18; Length 3625;
 Best Local Similarity 95.3%; Pred. No. 0;
 Matches 3330; Conservative 0; Mismatches 0; Indels 165; Gaps 2;
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 Db 132 AGAGAGGAGAGATAATATCTGAAAGAGAGGAGGAGGAGCGGACGGAGCG 191

Qy 62 CGAGCGGAGCGCAGCGCCCTCTCGGCTCGGGCGGCGCTCGCAAGTCCGGAGGCG 121
 Db 192 CGAGCGGAGCGCAGCGCCCTCTCGGCTCGGGCGGCGCTCGCAAGTCCGGAGGCG 251
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 Db 312 TCGGCGCGCCCAAAAGCTTTCACTCAGTGTAAAGCTGTGGAGCGGGAGCAAAAGTA 371
 Qy 242 AAGTAATGATTAATGCGCTGCTCAAAAGCATCTTTGTTGTTGTAATGTTATTTCCA 301
 Db 372 AAGTAATGATTAATGCGCTGCTCAAAAGCATCTTTGTTGTTGTAATGTTATTTCCA 431
 Qy 302 GTCACTCTTTATGAATCAAAATGTAGGCGGCTGCTTTGTGACGAGTCCCTTTGCAAGAG 361
 Db 432 GTCACTCTTTATGAATCAAAATGTAGGCGGCTGCTTTGTGACGAGTCCCTTTGCAAGAG 491
 Qy 362 CACATCAACGGGAAAGAGAGACATTTCACTTTGGAGGGCTCTTGTGAAAATGGGTTT 421
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 Qy 422 AACTCTCTTTTGGCAGTCAACACGAGCTGACCTCATACACTTTTAGTACAATGGAGTG 481
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 Qy 482 GCTGAGCTTTTGACACACACCATTAATCATCTGTCGCAAAATTAAGAGAGGAGTGGA 541
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 Qy 542 AAAGAGGACTTTATTTGTTGTCATGCGCCCATGAGATGATTTGGAACCTCAAATTTGTTACTGAGA 601
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 Qy 602 GGTGTTGGCTCTGCTGGAAGAGCGGAAAAGTGTCTGCTCAATTTGATAGCGGGCCAT 661
 Db 732 GGTGTTGGCTCTGCTGGAAGAGCGGAAAAGTGTCTGCTCAATTTGATAGCGGGCCAT 791
 Qy 721 TTGTGGATACAAATACATCCCACTTTTGGAGGCAATTAATCAACTGCTCCCAAGCTTA 721
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 Db 852 TGAAGCGAAGGTTCGCAACAGGACAAAGTGTAAATTTACAGAGCTCATCCAGCATTTCCAGCGA 911
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 Qy 842 ATGTTGCTCTCTCTCTTACAGACTGTTTCTCACTGTACTTTCTGGGTAAACTGGGAGAGA 901
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 Qy 902 GCTTCAACTCTGTTCACTGCTTGC----- 926
 Db 1032 GCTTCAACTCTGTTCACTGCTTGCAGAGTGGGTTGCTGAGTCTCTCGTTGTTTCCCTG 1091
 Qy 927 ----- 926
 Db 1092 GCCTCTGTGAAGGAAATCCACTCTAGTCCCTACCTGCAATTTCTCAGCGCTTGTACCTG 1151
 Qy 927 ----- 926
 Db 1152 TTGCCAATTTGGGCCAACCCGAAATTTCTCCAAATCTTTATCTTGGCTGCCAGCGAGATG 1211
 Qy 927 -----AGAGCTGATGACGAGAAATGGATTTGTTATGTGTAAATGCCAGCAATA 977
 Db 1212 TCCTCAACAGAGAGCTGATGACGAGAAATGGATTTGTTATGTGTAAATGCCAGCAATA 1271
 Qy 978 CTTGTCCAAAGCGCTGACTTTATCTCCCGAGTCTCAATTTCTCGGTGCTGCTGTGAATGACA 1037

Db	1272	 CCTGTCAAAGCCCTGA CTTTATCCCCGAGTCTCATTTCTCGCTGTGCTGTGAATGACA	1331
Qy	1038	 GCTTTTCTGAGAAAATTTTCGCGTGGTTTGAGCAAAATCAGTAGATTTTCATTTGAGAAAGCAA	1097
Db	1332	 GCTTTTCTGAGAAAATTTTCGCGTGGTTTGAGCAAAATCAGTAGATTTTCATTTGAGAAAGCAA	1391
Qy	1098	 AAGCCTCCAATGGATGTGTTCTAGTGACATGTGTTTAGCTGGGATCTCCGCTCGCCACCA	1157
Db	1392	 AAGCCTCCAATGGATGTGTTCTAGTGACATGTGTTTAGCTGGGATCTCCGCTCGCCACCA	1451
Qy	1158	 TCGCTATCGCCTACATCATGAAGAGGATGACATGTCTTTAGATGAAGCTTACAGATTTG	1217
Db	1452	 TCGCTATCGCCTACATCATGAAGAGGATGACATGTCTTTAGATGAAGCTTACAGATTTG	1511
Qy	1218	 TGAAGAAAAGAACCTTACTATATCTCCAACTTCAATTTTCTGGGCCAACTCCTGGACT	1277
Db	1512	 TGAAGAAAAGAACCTTACTATATCTCCAACTTCAATTTTCTGGGCCAACTCCTGGACT	1571
Qy	1278	 ATGAGAAGAACATTAAGAAACAGACTCGAGCATCAGGGCCAAAGAGCAAACTCAAGCTGC	1337
Db	1572	 ATGAGAAGAACATTAAGAAACAGACTCGAGCATCAGGGCCAAAGAGCAAACTCAAGCTGC	1631
Qy	1338	 TGCACCTGGAGAAGCCAAATGAACCTGTCCCTGTCTCTCAGAGGGTGGACAGAAAGCG	1397
Db	1632	 TGCACCTGGAGAAGCCAAATGAACCTGTCCCTGTCTCTCAGAGGGTGGACAGAAAGCG	1691
Qy	1398	 AGAGCCCCCTCAGTCTCCACCTGTGCCACTCTGTCTACTCTCAGAGGCAGCAGGCAAGGC	1457
Db	1692	 AGAGCCCCCTCAGTCTCCACCTGTGCCACTCTGTCTACTCTCAGAGGCAGCAGGCAAGGC	1751
Qy	1458	 CCGTGCATCCCGCCAGCGTGCCAGCGTGCCACGCTGACCGCTGCTGTTAGAGGACA	1517
Db	1752	 CCGTGCATCCCGCCAGCGTGCCAGCGTGCCACGCTGCTGTTAGAGGACA	1811
Qy	1518	 GCCCGCTGGTACAGCGCTCAGTGGGGTGCA CTTGTCCGACAGAGCTCGAAACAGCA	1577
Db	1812	 GCCCGCTGGTACAGCGCTCAGTGGGGTGCA CTTGTCCGACAGAGCTCGAAACAGCA	1871
Qy	1578	 ATAAGCTCAAGGTTCTTCTCTCTGGATCAAATCAGTTTTATATTCAGCCAGCATGG	1637
Db	1872	 ATAAGCTCAAGGTTCTTCTCTCTGGATCAAATCAGTTTTATATTCAGCCAGCATGG	1931
Qy	1638	 CAGCATCCTTACATGGCTTCTCCTCATCAGAAGATGCTTTTGGATACTACAAACCTTCCA	1697
Db	1932	 CAGCATCCTTACATGGCTTCTCCTCATCAGAAGATGCTTTTGGATACTACAAACCTTCCA	1991
Qy	1698	 CTACTCTGGATGGGACCAACAAAGCTATGCCAGTTTCTCCCTGTTCAGGAACCTATCGGAGC	1757
Db	1992	 CTACTCTGGATGGGACCAACAAAGCTATGCCAGTTTCTCCCTGTTCAGGAACCTATCGGAGC	2051
Qy	1758	 AGATCCCGAAACAGTCTCTGATGAAGAGGAGCGAGCATCCCCCAAGAGCTGCAGACCG	1817
Db	2052	 AGATCCCGAAACAGTCTCTGATGAAGAGGAGCGAGCATCCCCCAAGAGCTGCAGACCG	2111
Qy	1818	 CCAGSCCTTCAGACCCAGACAGCAGCGATTGCAATCGCTCAGAAACAGCAGCAGTGGCA	1877
Db	2112	 CCAGSCCTTCAGACCCAGACAGCAGCGATTGCAATCGCTCAGAAACAGCAGCAGTGGCA	2171
Qy	1878	 CCGCCCAGAGGTCCCTTTTATCTCCACTGCAATCGAAGTGGAGCGGTGGAGGACAATTACC	1937
Db	2172	 CCGCCCAGAGGTCCCTTTTATCTCCACTGCAATCGAAGTGGAGCGGTGGAGGACAATTACC	2231
Qy	1938	 ACACAGCTTCCTTTTTCGGCCTTTTCCACAGCGAGCAGCACTCAGAGAGTCTCTCGGCC	1997
Db	2232	 ACACAGCTTCCTTTTTCGGCCTTTTCCACAGCGAGCAGCACTCAGAGAGTCTCTCGGCC	2291
Qy	1998	 TGGGCTTTAAGGGCTGGCACTCGGATATCTTTGGCCCCCAGACCTCTACCCCTTCCCTGA	2057
Db	2292	 TGGGCTTTAAGGGCTGGCACTCGGATATCTTTGGCCCCCAGACCTCTACCCCTTCCCTGA	2351
Qy	2058	 CCAGCAGCTGGTATTTTGGCCACAGAGTCTCACACTTCTACTCTGCTCTCAGCCATCTACG	2117

Db	2352	CCAGCAGCTGGTATATTTTGGCACAAGATCTCTACACATTCTACTCTGCTCAGCCATCTACG	2411	
QY	2118	GAGCAGTGCAGTTACTCTCGCTACAGCTGCAGCCAGCTGCCACATTGCGGAGACCAAG	2177	
Db	2412	GAGCAGTGCAGTTACTCTCGCTACAGCTGCAGCCAGCTGCCACATTGCGGAGACCAAG	2471	
QY	2178	TCTATTCTGTGCGCAGCGGCAGAACGCCAAGTGA CAGAGCTGACTCGCGCGGAGCTGGC	2237	
Db	2472	TCTATTCTGTGCGCAGCGGCAGAACCCAAGTGCAGAGCTGACTCGCGCGGAGCTGGC	2531	
QY	2238	ATCAAGAGAGCCCTCTTTGAAAGCAGTTTAAACGCGCAGAAAGCTGCCAAATGGAAATTTGGAG	2297	
Db	2532	ATGAAGAGAGCCCTTTGAAAGCAGTTTAAACGCGAAGCTGCCAAATGGAAATTTGGAG	2591	
QY	2298	AGAGCATCATGT CAGAGAACAGGTTCACGGGAAGAGCTGGGGAAGTGGGCAGTCACTA	2357	
Db	2592	AGAGCATCATGT CAGAGAACAGGTTCACGGGAAGAGCTGGGGAAGTGGGCAGTCACTA	2651	
QY	2358	GCCTTTTCGGGCACGATGGAAATCA TTGAGGTCCTTGAGAAAGACACACTTGTGACTTC	2417	
Db	2652	GCCTTTTCGGGCACGATGGAAATCA TTGAGGTCCTTGAGAAAGACACACTTGTGACTTC	2711	
QY	2418	TATAGACAAATTTTTTTCTTGTTCTCAAAAATAATCCCTGTAAATCTGAAATATATATA	2477	
Db	2712	TATAGACAAATTTTTTTCTTGTTCTCAAAAATAATCCCTGTAAATCTGAAATATATATA	2771	
QY	2478	TGTACATACATATATATTTTTGCAAAATGAGACTATGGTCTGAAAGCAACAGGTGGATCA	2537	
Db	2772	TGTACATACATATATATTTTTGCAAAATGAGACTATGGTCTGAAAGCAACAGGTGGATCA	2831	
QY	2538	ACCCAGTTGTACTCTCTTAAACATCTGCA TTTGAGAGATCAGCTAATPACTTCTCTCAACA	2597	
Db	2832	ACCCAGTTGTACTCTCTTAAACATCTGCA TTTGAGAGATCAGCTAATPACTTCTCTCAACA	2891	
QY	2598	AAAATGGAAGGGCAGATCTGAGAAATCCCCCCTTAGACGGAGGAAAACATTTTATTCAGTG	2657	
Db	2892	AAAATGGAAGGGCAGATCTGAGAAATCCCCCCTTAGACGGAGGAAAACATTTTATTCAGTG	2951	
QY	2658	AA TTTACACATCTCTCTTGTTCTTAAAAAAGCAAGTGTCTTTGGTGTGGAGGACAAAATTC	2717	
Db	2952	AA TTTACACATCTCTCTTGTTCTTAAAAAAGCAAGTGTCTTTGGTGTGGAGGACAAAATTC	3011	
QY	2718	CCTACCAATTTTCCA CGTGTGTGCTACTAAGAGATCTCAAAATATTAGTCTTTGTCCGGAACC	2777	
Db	3012	CCTACCAATTTT - CACGTTGTGTGCTACTAAGAGATCTCAAAATATTAGTCTTTGTCCGGAACC	3070	
QY	2778	TTCCATAGTACACCTTTAGCCCTGAGACTGAGCCAGCTTTGGGGGT CAGGTAGGTAGACCCCT	2837	
Db	3071	TTCCATAGTACACCTTTAGCCCTGAGACTGAGCCAGCTTTGGGGGT CAGGTAGGTAGACCCCT	3130	
QY	2838	GT TAGGACAGAGCCTAGTGGTAAATCCAAAGAGAAATGATCCCTATCCAAAGCTGATTCAC	2897	
Db	3131	GT TAGGACAGAGCCTAGTGGTAAATCCAAAGAGAAATGATTCCTATCCAAAGCTGATTCAC	3190	
QY	2898	AAACCCACGCTCACCTGCACGCCGAGGGA CACGAGCATCACTCTGTGGACGGACCAATTA	2957	
Db	3191	AAACCCACGCTCACCTGCACGCCGAGGGA CACGAGCATCACTCTGTGGACGGACCAATTA	3250	
QY	2958	GGGGCCTTGCCAGGCTCTACTTTAGAGCAAAACCAGTACCTCAGACAGGAAAGTCCGGGC	3017	
Db	3251	GGGGCCTTGCCAGGCTCTACTTTAGAGCAAAACCAGTACCTCAGACAGGAAAGTCCGGGC	3310	
QY	3018	TTTGACCACCTACCATATCTGCTAGCCCATTTTCTTAGGCATTTGTGCAATAGGTAGGTAGCTA	3077	
Db	3311	TTTGACCACCTACCATATCTGCTAGCCCATTTTCTTAGGCATTTGTGCAATAGGTAGGTAGCTA	3370	
QY	3078	GTCA CACTTTTTTCAGACCAATTTCAAATGTCTATGCACAAAATTTCCCGTGGGCCTTAGATGG	3137	
Db	3371	GTCA CACTTTTTTCAGACCAATTTCAAATGTCTATGCACAAAATTTCCCGTGGGCCTTAGATGG	3430	
QY	3138	AGATAAATTTTTTTTCTTCAGCTTTATGAAAGAAAGGGAACCTGTCTAGGATTCAGCT	3197	
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QY 1481 AGCGTGCCAGCGTGACGCGCTCGCTGTATGAGGACAGCCCGCTGGTACAGGCGCTCAGT 1540
Db 1621 AGCGTGCCAGCGTGACGCGCTCGCTGTATGAGGACAGCCCGCTGGTACAGGCGCTCAGT 1680
QY 1541 GGGCTGCACCTGTCGGCAGACAGGCTGGAACACAGCATATGACTCAAGCGTTCCTTCTCT 1600
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QY 1601 CTGGATATCAAAATCAGTTTTCATATTCAGCCAGCATGGCAGCATCCTTACATGGCTTCTCC 1660
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QY 1661 TCATCAGAAGATGCTTTTGGAAATPACAAAACCTTCCACTACTCTGATGGAGCCAAACAG 1720
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QY 1781 AAGGAGGAAGCCAGCATCCCAAGAGCTGCAGACCGCCAGGCTTTCAGACAGCCAGAGC 1840
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RESULT 6

US-10-029-345A-108
; Sequence 108, Application US/10029345A
; Publication No. US20050130286A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL HUMAN PHOSPHATASES
; FILE REFERENCE: D0072.NP
; CURRENT APPLICATION NUMBER: US/10/029,345A
; PRIORITY FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: US 60/256,868
; PRIORITY FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 60/280,186
; PRIORITY FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 60/287,735
; PRIORITY FILING DATE: 2001-05-01
; PRIOR APPLICATION NUMBER: US 60/295,848
; PRIORITY FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/300,465
; PRIORITY FILING DATE: 2001-06-25
; NUMBER OF SEQ ID NOS: 208

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Db 3420 GAATTTGTTAAATGGATTTGTCATCTTTAAATAAAGATGAACTTGGTTTC 3472
RESULT 8
US-09-816-494-1
; Sequence 1, Application US/09816494
; Patent No. US20020034807A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel A.
; TITLE OF INVENTION: 38692 AND 21117, NOVEL DUAL SPECIFICITY
; TITLE OF INVENTION: PHOSPHATASE MOLECULES AND USES THEREFOR
; FILE REFERENCE: 10448-030002
; CURRENT APPLICATION NUMBER: US/09/816,494
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/191,858
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 3544
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (589)....(2583)
US-09-816-494-1
Query Match 88.5%; Score 2950; DB 9; Length 3544;
Best Local Similarity 95.0%; Pred. No. 0;
Matches 3135; Conservative 0; Mismatches 0; Indels 165; Gaps 2;
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Db 1844 GCTTCTCTCATCAGAAAGTCTTTGGAATCTTCAAAACCTTCCACTCTCTGGATGGGA 1903
QY 1713 CCAACAGCTATGCGAGTTCTCCCTGTCTCAGGAATCTATCGGAGCAGACTCCCGAAACCA 1772

Db 1904 CCAACAAGCTATGCGAGTTCTCCCTGTTTCAAGGAATATTCGGAGCAGACTCCCGAAACCA 1963
QY 1773 GTCTGTATAAGAGGAAGCAAGCATCCCAAGAAAGCTGCAGACCGCCAGGCTTTCAGACA 1832
Db 1964 GTCTGTATAAGAGGAAGCAAGCATCCCAAGAAAGCTGCAGACCGCCAGGCTTTCAGACA 2023
QY 1833 GCCAGAGCAAGCGATTGCAATTCGGTTCAGAAACAGCAGCAGTGGCAGCCGCCAGAGGTCCC 1892
Db 2024 GCCAGAGCAAGCGATTGCAATTCGGTTCAGAAACAGCAGCAGTGGCAGCCGCCAGAGGTCCC 2083
QY 1893 TTTTATCTCTCACTGCATCGAAAGTGGAGCGTGGAGGACAAATTACCAACAGCTTCTCTTT 1952
Db 2084 TTTTATCTCTCACTGCATCGAAAGTGGAGCGTGGAGGACAAATTACCAACAGCTTCTCTTT 2143
QY 1953 TCGGCTTTTCCACAGCCAGCAGCACTCTACGAAAGTCTGTGGCTGGGCTTTAAGGCT 2012
Db 2144 TCGGCTTTTCCACAGCCAGCAGCACTCTACGAAAGTCTGTGGCTGGGCTTTAAGGCT 2203
QY 2013 GGCACTCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTGACACAGCAGCTGTATT 2072
Db 2204 GGCACTCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTGACACAGCAGCTGTATT 2263
QY 2073 TTTGCCACAGAGTCTCACAATTTCTACTCTGCTCAGCCATCTACGGAGCAGTGCAGTT 2132
Db 2264 TTTGCCACAGAGTCTCACAATTTCTACTCTGCTCAGCCATCTACGGAGCAGTGCAGTT 2323
QY 2133 ACTCTGCTTACAGCTGACAGCAGCTGCCCACTTTGCGGAGACCAAGCTTATTCTGTGCGCA 2192
Db 2324 ACTCTGCTTACAGCTGACAGCAGCTGCCCACTTTGCGGAGACCAAGCTTATTCTGTGCGCA 2383
QY 2193 GCGCGCAGAAAGCAAGTGCAGAGCTGACTCGCGCGGAGCTGGCATGAGAGAGCCCT 2252
Db 2384 GCGCGCAGAAAGCAAGTGCAGAGCTGACTCGCGCGGAGCTGGCATGAGAGAGCCCT 2443
QY 2253 TTTGAAAGCAGTTTAAACGCGAAGCTGCCAAATGGAATTTGGAGAGACATCATGTCTAG 2312
Db 2444 TTTGAAAGCAGTTTAAACGCGAAGCTGCCAAATGGAATTTGGAGAGACATCATGTCTAG 2503
QY 2313 AGAACAGGCTCAGCGGAAGAGCTGGGGAAGTGGGAGTCAGTCTAGCTTTTTCGGGAGCA 2372
Db 2504 AGAACAGGCTCAGCGGAAGAGCTGGGGAAGTGGGAGTCAGTCTAGCTTTTTCGGGAGCA 2563
QY 2373 TGGAAATCAATTTAGAGTCTCTGAGAGAAAGACATCTGTGACTTCTATAGACAAATTTT 2432
Db 2564 TGGAAATCAATTTAGAGTCTCTGAGAGAAAGACATCTGTGACTTCTATAGACAAATTTT 2623
QY 2433 TTTCTTGTTCACAAAATAATCCCTGTAAATCTGAAATATATATATGTACATACATATAT 2492
Db 2624 TTTCTTGTTCACAAAATAATCCCTGTAAATCTGAAATATATATATGTACATACATATAT 2683
QY 2493 ATTTTGTGAAATGGAGCTATGCTGTAAAGCAACAGGTGGATCAACCCAGTTTGTACTC 2552
Db 2684 ATTTTGTGAAATGGAGCTATGCTGTAAAGCAACAGGTGGATCAACCCAGTTTGTACTC 2743
QY 2553 TCTTAACATCTGCATTTGAGAGATCAGCTAATACTTCTCTCAACAAAATGGAAGGGCAG 2612
Db 2744 TCTTAACATCTGCATTTGAGAGATCAGCTAATACTTCTCTCAACAAAATGGAAGGGCAG 2803
QY 2613 ATGTAGAAATCCCCCTAGACGAGGAAACCAATTTTATTTAGTGAATTTACACATCTCT 2672
Db 2804 ATGTAGAAATCCCCCTAGACGAGGAAACCAATTTTATTTAGTGAATTTACACATCTCT 2863
QY 2673 TGTCTTAAAAAGCAAGTGTCTTTGGTGTGGAGGACAAAATCCCTACCATTTTCCAC 2732
Db 2864 TGTCTTAAAAAGCAAGTGTCTTTGGTGTGGAGGACAAAATCCCTACCATTTT-CAC 2922
QY 2733 GTTGTGCTACTAAGAGATCTCAAAATATTAGTCTTTTGTCCGAGCCCTTCCATAGTACACCT 2792
Db 2923 GTTGTGCTACTAAGAGATCTCAAAATATTAGTCTTTTGTCCGAGCCCTTCCATAGTACACCT 2982
QY 2793 TAGCGCTGAGACTGAGCCAGCTTGGGGTTCAGGTAGTGTAGACCTGTTTAGGACAGAGCC 2852
Db 2983 TAGCGCTGAGACTGAGCCAGCTTGGGGTTCAGGTAGTGTAGACCTGTTTAGGACAGAGCC 3042

QY 2853 TAGTGGTAAATCCAAAGAGAAATGATCCATATCCAAAGCTGATTCACAAACCCACGCTCACC 2912
 Db 3043 TAGTGGTAAATCCAAAGAGAAATGATCCATATCCAAAGCTGATTCACAAACCCACGCTCACC 3102
 QY 2913 TCACAGCCGAGGACACGAGCATCACTCTGCTGGACGACCAATAGGGGCTTCGCCAAGG 2972
 Db 3103 TCACAGCCGAGGACACGAGCATCACTCTGCTGGACGACCAATAGGGGCTTCGCCAAGG 3162
 QY 2973 TCTACTCTAGACAAACCCAGTACCTCAGACAGAAAGTTCGGGGCTTTGACCACTTACCAT 3032
 Db 3163 TCTACTCTAGACAAACCCAGTACCTCAGACAGAAAGTTCGGGGCTTTGACCACTTACCAT 3222
 QY 3033 ATCTGGTAGCCCATTTTCTAGGCAATGTGAATAGTAGTACGTAGTACACACTTTTTCAGA 3092
 Db 3223 ATCTGGTAGCCCATTTTCTAGGCAATGTGAATAGTAGTACGTAGTACACACTTTTTCAGA 3282
 QY 3093 CCAATTCACAACTGTCTATGCACAAAATTCCTGGTGGGCTTAGATGAGATAATTTTTTTTTT 3152
 Db 3283 CCAATTCACAACTGTCTATGCACAAAATTCCTGGTGGGCTTAGATGAGATAATTTTTTTTTT 3342
 QY 3153 CTCTCTCAGCTTTATGAAGAGAGGAAACTGTCTAGGATTCAGCTGAACCCACGGAAC 3212
 Db 3343 CTCTCTCAGCTTTATGAAGAGAGGAAACTGTCTAGGATTCAGCTGAACCCACGGAAC 3402
 QY 3213 TGGCAACATCACGATTTAAGCTTAAGTTGGGAGGCTAACAGTCTACCTCCCTCTTTGTA 3272
 Db 3403 TGGCAACATCACGATTTAAGCTTAAGTTGGGAGGCTAACAGTCTACCTCCCTCTTTGTA 3462
 QY 3273 AATCAAGAAATGTTTAAATGGGATGTCAATCCTTTAAATAAAGATGAACCTGGTTTC 3332
 Db 3463 AATCAAGAAATGTTTAAATGGGATGTCAATCCTTTAAATAAAGATGAACCTGGTTTC 3522

RESULT 9
 US-10-377-072-25
 ; Sequence 25, Application US/10377072
 ; Publication No. US2004009501A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Millennium Pharmaceuticals Inc.
 ; APPLICANT: Curtis, Rory A.J.
 ; APPLICANT: Logan, Thomas Joseph
 ; APPLICANT: Glucksmann, Maria A.
 ; APPLICANT: Meyers, Rachel E.
 ; APPLICANT: Williamson, Mark J.
 ; APPLICANT: Rudolph-Owen, Laura A.
 ; APPLICANT: Chun, Miyoung
 ; APPLICANT: Tsai, Fong-Ying
 ; TITLE OF INVENTION: NOVEL 25869, 25934, 26335, 50365, 21117,
 ; TITLE OF INVENTION: 38692, 46508, 16816, 16839, 49937, 49931 AND 49933 MOLECULES
 ; TITLE OF INVENTION: AND USES THEREFOR
 ; FILE REFERENCE: MPI03-0180NMIM
 ; CURRENT APPLICATION NUMBER: US/10/377,072
 ; CURRENT FILING DATE: 2003-02-27
 ; PRIOR APPLICATION NUMBER: US 09/895,860
 ; PRIOR FILING DATE: 2001-06-29
 ; PRIOR APPLICATION NUMBER: US 60/215,370
 ; PRIOR FILING DATE: 2000-06-29
 ; PRIOR APPLICATION NUMBER: US 09/723,806
 ; PRIOR FILING DATE: 2000-11-28
 ; PRIOR APPLICATION NUMBER: US 60/187,455
 ; PRIOR FILING DATE: 2000-03-07
 ; PRIOR APPLICATION NUMBER: US 09/843,297
 ; PRIOR FILING DATE: 2001-04-25
 ; PRIOR APPLICATION NUMBER: US 60/199,801
 ; PRIOR FILING DATE: 2000-04-26
 ; PRIOR APPLICATION NUMBER: US 09/861,801
 ; PRIOR FILING DATE: 2001-05-21
 ; PRIOR APPLICATION NUMBER: US 60/205,508
 ; PRIOR FILING DATE: 2000-05-19
 ; PRIOR APPLICATION NUMBER: US 09/816,494
 ; PRIOR FILING DATE: 2001-03-23
 ; PRIOR APPLICATION NUMBER: US 09/815,419

; PRIOR FILING DATE: 2001-03-22
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 114
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 25
 ; LENGTH: 3544
 ; TYPE: DNA
 ; ORGANISM: Homo Sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (589)....(2586)
 US-10-377-072-25

Query Match 88.5%; Score 2950; DB 17; Length 3544;
 Best Local Similarity 95.0%; Pred. No. 0;
 Matches 3135; Conservative 0; Mismatches 0; Indels 165; Gaps 2;

QY	197	GCTTTTCAGTCCAGTGTAAAGCTGTTGAGCGCGGGAGCAAAAGGTAAAGAAATGATGTAATG	256
Db	224	GCCTTCAGTCCAGTGTAAAGCTGTTGAGCGCGGGAGCAAAAGGTAAAGAAATGATGTAATG	283
QY	257	CGCTGGCTGCTCCAAAGCATCTTTTGTGTGGAAATGGTTATTCCAGTCATCTCTTTATGA	316
Db	284	CGCTGGCTGCTCCAAAGCATCTTTTGTGTGGAAATGGTTATTCCAGTCATCTCTTTATGA	343
QY	317	ATCAAAATGTGAGGGGCTGCTTTGTGGAGGAGTCTTTTGCAGAGACATCAACGGGAAA	376
Db	344	ATCAAAATGTGAGGGGCTGCTTTGTGGAGGAGTCTTTTGCAGAGACATCAACGGGAAA	403
QY	377	GAGAAAGAGACATTCACCTTGGAGGGCTCTTCTCAAAATGGGTTTAACTCTCTTTTGGC	436
Db	404	GAGAAAGAGACATTCACCTTGGAGGGCTCTTCTCAAAATGGGTTTAACTCTCTTTTGGC	463
QY	437	AGTCACCCACGACCTGACCTCATACATCTTTTGTAGTCAATGGAGTGGCTGAGCCTTTGAGC	496
Db	464	AGTCACCCACGACCTGACCTCATACATCTTTTGTAGTCAATGGAGTGGCTGAGCCTTTGAGC	523
QY	497	ACACCACCATTTACATCATCTGTTGGCAAAATTAAGAGAGGAGTGGGAAAAGAGAGACTTATTG	556
Db	524	ACACCACCATTTACATCATCTGTTGGCAAAATTAAGAGAGGAGTGGGAAAAGAGAGACTTATTG	583
QY	557	TTGTCTATGGCCCATGAGATGATTCGAACTCAAAATTTGTACTGAGAGGTTGGTGGCTCTGC	616
Db	584	TTGTCTATGGCCCATGAGATGATTCGAACTCAAAATTTGTACTGAGAGGTTGGTGGCTCTGC	643
QY	617	TGGAAAGTGGAAACGGAAAAAGTGTCTGCTTAATTGTAGTCCGCCCATTTTGTGGAATACAATA	676
Db	644	TGGAAAGTGGAAACGGAAAAAGTGTCTGCTTAATTGTAGTCCGCCCATTTTGTGGAATACAATA	703
QY	677	CATCCCAATTTTGGAGGCCATTAATATCAACTGCTCCAAGCTTATGAGCGAAGGTTGC	736
Db	704	CATCCCAATTTTGGAGGCCATTAATATCAACTGCTCCAAGCTTATGAGCGAAGGTTGC	763
QY	737	AACAGGACAAAGTGTTAATTACAGAGCTCATCTCAGCATTCAGCGAAAACATAAGGTTGACA	796
Db	764	AACAGGACAAAGTGTTAATTACAGAGCTCATCTCAGCATTCAGCGAAAACATAAGGTTGACA	823
QY	797	TTGATTGCAGTCAGAAAGTTGTAGTTTACGATCAAAAGTCCCAAGATGTTGGCTCTCTCT	856
Db	824	TTGATTGCAGTCAGAAAGTTGTAGTTTACGATCAAAAGTCCCAAGATGTTGGCTCTCTCT	883
QY	857	CTTCAGACTGTTTCTCACTGTACTTCTGGGGTAAATCTGAGAGAGCTTCACTCTGTTTC	916
Db	884	CTTCAGACTGTTTCTCACTGTACTTCTGGGGTAAATCTGAGAGAGCTTCACTCTGTTTC	943
QY	917	ACCTGCTTGC-----	926
Db	944	ACCTGCTTGCAGGTGGGTTTGTCTGAGTTCTCTCGTTGTTTCCCTGGCCCTCTGTGAAGGA	1003
QY	927	-----	926
Db	1004	AATCCACTCTAGTCCCTACCTGCAATTTCTCAGCCCTTGCTTACCTGTTGCCAATTTGGGC	1063

Qy 927 -----AGGAGC 932
 Db 1064 CAACCGGAATCTTCCCAATCTTTATCTTGGCTGCCAGCGAGATGTCCTCAACAGGAGC 1123
 Qy 933 TGATGACGAGAAATGGGATGGTTATGTGTTAAATGCGCAGCAATACCTGTGTCOAAGCCCTG 992
 Db 1124 TGATGACGAGAAATGGGATGGTTATGTGTTAAATGCCAGCAATACCTGTGTCOAAGCCCTG 1183
 Qy 993 ACTTTATCCCGAGTCTCATTTCTCGCGTGCCTGTGAATGACAGCTTTTGTGAGAAAA 1052
 Db 1184 ACTTTATCCCGAGTCTCATTTCTCGCGTGCCTGTGAATGACAGCTTTTGTGAGAAAA 1243
 Qy 1053 TTTTTCGCGTGTGGACAAATCAGTAGATTTCAITTGAGAAAAACAAAGCCTCCAATGGAT 1112
 Db 1244 TTTTTCGCGTGTGGACAAATCAGTAGATTTCAITTGAGAAAAACAAAGCCTCCAATGGAT 1303
 Qy 1113 GTGTTCTAGTGCACTGTGTTAGCTGGGATCTCCGGTCCGCCACCAATCGCTATCGCCTACA 1172
 Db 1304 GTGTTCTAGTGCACTGTGTTAGCTGGGATCTCCGGTCCGCCACCAATCGCTATCGCCTACA 1363
 Qy 1173 TCATGAGAGGATGGACATGCTTTTAGTAGAGCTTACAGATTTGTGAGAAAAAAGAC 1232
 Db 1364 TCATGAGAGGATGGACATGCTTTTAGTAGAGCTTACAGATTTGTGAGAAAAAAGAC 1423
 Qy 1233 CTACTATATCTCCAACTTTCAATTTTCTGGGCCAACTCTCGACTATGAGAAAGATTA 1292
 Db 1424 CTACTATATCTCCAACTTTCAATTTTCTGGGCCAACTCTCGACTATGAGAAAGATTA 1483
 Qy 1293 AGAACAGACTGGAGCATCAGGGCCAAAGAGCAAACTCAAGTGTGCTGCACTGGAGAGC 1352
 Db 1484 AGAACAGACTGGAGCATCAGGGCCAAAGAGCAAACTCAAGTGTGCTGCACTGGAGAGC 1543
 Qy 1353 CAATGAACTGTCCCTGTGCTCTCAGAGGTTGGACAAAAGCCAGAGCCCTCAGTC 1412
 Db 1544 CAATGAACTGTCCCTGTGCTCTCAGAGGTTGGACAAAAGCCAGAGCCCTCAGTC 1603
 Qy 1413 CACCTGTGCCACTCTGCTACTCTCAGAGCGAGCAGCAAAAGGCCGTGCATCCGCCA 1472
 Db 1604 CACCTGTGCCACTCTGCTACTCTCAGAGCGAGCAGCAAAAGGCCGTGCATCCGCCA 1663
 Qy 1473 GCGTGCACAGCGTGCACGCTGCAGCCGTGCTGTTAGAGGACAGCCCGCTGGTACAG 1532
 Db 1664 GCGTGCACAGCGTGCACGCTGCAGCCGTGCTGTTAGAGGACAGCCCGCTGGTACAG 1723
 Qy 1533 CGCTCAGTGGGTGCACTGTGCGGACAGAGCTGGAAGACAGCATAGCTCAAGCGTT 1592
 Db 1724 CGCTCAGTGGGTGCACTGTGCGGACAGAGCTGGAAGACAGCATAGCTCAAGCGTT 1783
 Qy 1593 CCTTCTCTCTGGATATCAAAATCAGTTTCATTTTCAGCCAGCATGGCAGCATCCTTACATG 1652
 Db 1784 CCTTCTCTCTGGATATCAAAATCAGTTTCATTTTCAGCCAGCATGGCAGCATCCTTACATG 1843
 Qy 1653 GCTTCTCTCTCAGAGATGCTTTTGGAAATACCTACAAACCTTCCACTCTCTGGATGGGA 1712
 Db 1844 GCTTCTCTCTCAGAGATGCTTTTGGAAATACCTACAAACCTTCCACTCTCTGGATGGGA 1903
 Qy 1713 CCAACAGCTATGCCAGTTCTCCCTGTTTCAGGAATCTCGGAGCAGATCCTCCGAAACCA 1772
 Db 1904 CCAACAGCTATGCCAGTTCTCCCTGTTTCAGGAATCTCGGAGCAGATCCTCCGAAACCA 1963
 Qy 1773 GTCTCATAGGAGGAGCCAGCATCCCAAGAGCTGCGAGCCGCGAGCCCTTCAGACA 1832
 Db 1964 GTCTCATAGGAGGAGCCAGCATCCCAAGAGCTGCGAGCCGCGAGCCCTTCAGACA 2023
 Qy 1833 GCCAGAGCAGCGATTTGCAATTCGGTTCAGAACACAGCAGCAGTGGCACCGCCAGAGTCCC 1892
 Db 2024 GCCAGAGCAGCGATTTGCAATTCGGTTCAGAACACAGCAGCAGTGGCACCGCCAGAGTCCC 2083
 Qy 1893 TTTTATCTCACTGCAATCGAAGTGGAGCGTGGAGGCAATTAACCAACAAGCTTCTTTT 1952
 Db 2084 TTTTATCTCACTGCAATCGAAGTGGAGCGTGGAGGCAATTAACCAACAAGCTTCTTTT 2143
 Qy 1953 TCGGCCTTTCCACCAGCCAGCAGCACTCAGAGTCTGTGCGCTTGAAGGCT 2012

Db 2144 TCGGCCTTTCCACCAGCCAGCAGCACTCTCAAGAGTCTGCTGGCCTGGGCTTAAGGCT 2203
 Qy 2013 GGCACTCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTGACACAGCAGCTGGTATT 2072
 Db 2204 GGCACTCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTGACACAGCAGCTGGTATT 2263
 Qy 2073 TTGCCACAGAGTCTCTCACTTTCTACTGCTGCTCAGCCATCTACGAGGCGAGTGCAGTT 2132
 Db 2264 TTGCCACAGAGTCTCTCACTTTCTACTGCTGCTCAGCCATCTACGAGGCGAGTGCAGTT 2323
 Qy 2133 ACTCTGCCCTACAGCTGACGCCAGCTGCCACTTGGGAGACCAAGTCTATTCTGTGCGCA 2192
 Db 2324 ACTCTGCCCTACAGCTGACGCCAGCTGCCACTTGGGAGACCAAGTCTATTCTGTGCGCA 2383
 Qy 2193 GCGCGCAAGCCAAAGTGCAGAGCTGCTCGCGCGAGCTGGCATCAAGAGAGCCCT 2252
 Db 2384 GCGCGCAAGCCAAAGTGCAGAGCTGCTCGCGCGAGCTGGCATCAAGAGAGCCCT 2443
 Qy 2253 TTGAAAAGCAGTTTAAACGCGAGAGCTGCCAAATGGAAATTTGGAGAGCATCATGTGAG 2312
 Db 2444 TTGAAAAGCAGTTTAAACGCGAGAGCTGCCAAATGGAAATTTGGAGAGCATCATGTGAG 2503
 Qy 2313 AGAACAGCTCAGCGGAGAGCTGGGAAAGTGGGAGTCACTGCTAGCTTTTCGGGACGA 2372
 Db 2504 AGAACAGCTCAGCGGAGAGCTGGGAAAGTGGGAGTCACTGCTAGCTTTTCGGGACGA 2563
 Qy 2373 TGGAAATCATTTGAGTCTCTGAGAGAAAGACACTTGTGACTTCTATAGACAAATTTT 2432
 Db 2564 TGGAAATCATTTGAGTCTCTGAGAGAAAGACACTTGTGACTTCTATAGACAAATTTT 2623
 Qy 2433 TTTCTTGTTCACAAAAAATTCCTGTAAATCTGAAATATATATATATATATATATATAT 2492
 Db 2624 TTTCTTGTTCACAAAAAATTCCTGTAAATCTGAAATATATATATATATATATATAT 2683
 Qy 2493 ATTTTGGAAAAATGAGCTATGGTGTAAAAGCAAGGTGGATCAACCCAGTTGTTACTC 2552
 Db 2684 ATTTTGGAAAAATGAGCTATGGTGTAAAAGCAAGGTGGATCAACCCAGTTGTTACTC 2743
 Qy 2553 TCCTTAACATCTGCAATTTGAGAGATCAGCTTAATCTCTCAACAAAAATGAAAGGCGAG 2612
 Db 2744 TCCTTAACATCTGCAATTTGAGAGATCAGCTTAATCTCTCAACAAAAATGAAAGGCGAG 2803
 Qy 2613 ATGCTAGAAATCCCTCTAGACGAGGAGAAAAACCAITTTATTTCAAGTGAATTTACATCCTCT 2672
 Db 2804 ATGCTAGAAATCCCTCTAGACGAGGAGAAAAACCAITTTATTTCAAGTGAATTTACATCCTCT 2863
 Qy 2673 TGTTCTTAAAAAGCAAGTGTCTTTGGTGTGGAGGACAAAATCCCTTACCAATTTTCCAC 2732
 Db 2864 TGTTCTTAAAAAGCAAGTGTCTTTGGTGTGGAGGACAAAATCCCTTACCAATTTT - CAC 2922
 Qy 2733 GTTGTGCTACTTAAGAGATCTCAAAATATTAGTCTTTGTCGGAGCCCTTCCATAGTACACCT 2792
 Db 2923 GTTGTGCTACTTAAGAGATCTCAAAATATTAGTCTTTGTCGGAGCCCTTCCATAGTACACCT 2982
 Qy 2793 TAGCCCTGAGACTGAGCCAGCTTGGGGGTTCAGGTAGTAGACCCCTGTTAGGGACAGAGCC 2852
 Db 2983 TAGCCCTGAGACTGAGCCAGCTTGGGGGTTCAGGTAGTAGACCCCTGTTAGGGACAGAGCC 3042
 Qy 2853 TAGTGGTAAATCCAAAGAGAAATGATCTTATCCAAAGCTGATTCACAAAACCCAGCTCACC 2912
 Db 3043 TAGTGGTAAATCCAAAGAGAAATGATCTTATCCAAAGCTGATTCACAAAACCCAGCTCACC 3102
 Qy 2913 TGACAGCCGAGGACACAGAGCATCACTCTGTCGGAGCCCAATTAGGGCCCTTGGCAAG 2972
 Db 3103 TGACAGCCGAGGACACAGAGCATCACTCTGTCGGAGCCCAATTAGGGCCCTTGGCAAG 3162
 Qy 2973 TCTACTCTTAGAGCAAAACCCAGTACCTCAGACAGGAAAGTTCGGGGCTTTGACCACTACCAT 3032
 Db 3163 TCTACTCTTAGAGCAAAACCCAGTACCTCAGACAGGAAAGTTCGGGGCTTTGACCACTACCAT 3222
 Qy 3033 ATCTGGTAGCCCAATTTCTTAGGCAATTTGGAATAGGTAGGTAGTCACTTTTTCAGA 3092

Db 3223 ATCTGGTAGCCCAATTTCTTAGGCATTTGGAATAGTAGGTAGTAGTCACACTTTTCAGA 3282
 Qy CCAATTTCAAACCTGTCTATGCAAAAATTTCCCGTGGGCCCTAGATGGAGATAATTTTTTTT 3152
 Db CCAATTTCAAACCTGTCTATGCAAAAATTTCCCGTGGGCCCTAGATGGAGATAATTTTTTTT 3342
 Qy CTTCTCAGCTTTATGAAGAAGAGGAAACTGTCTAGGATTCAGCTGAACACCAGGAACC 3212
 Db CTTCTCAGCTTTATGAAGAAGAGGAAACTGTCTAGGATTCAGCTGAACACCAGGAACC 3402
 Qy TGGCAACATCAGATTTAAGCTTAAGCTTAAGCTTGGGAGGCTAACGAGTCTACCTCCTCTTTGTA 3272
 Db TGGCAACATCAGATTTAAGCTTTAAGCTTGGGAGGCTAACGAGTCTACCTCCTCTTTGTA 3462
 Qy AATCAAGAATTTGTTTAAATGGGATTTGTCAATCCTTTTAAATGAAGATGAACCTGGTTTC 3332
 Db AATCAAGAATTTGTTTAAATGGGATTTGTCAATCCTTTTAAATGAAGATGAACCTGGTTTC 3522

RESULT 10

US-10-377-072-25
 ; Sequence 25, Application US/10377072
 ; Publication No. US20040157221A9
 ; GENERAL INFORMATION:
 ; APPLICANT: Millennium Pharmaceuticals Inc.
 ; APPLICANT: Curtis, Rory A.J.
 ; APPLICANT: Logan, Thomas Joseph
 ; APPLICANT: Glucksmann, Maria A.
 ; APPLICANT: Meyers, Rachel E.
 ; APPLICANT: Williamson, Mark J.
 ; APPLICANT: Rudolph-Owen, Laura A.
 ; APPLICANT: Chun, Miyoung
 ; APPLICANT: Tsai, Fong-Ying
 ; TITLE OF INVENTION: NOVEL 25869, 25934, 26335, 50365, 21117,
 ; TITLE OF INVENTION: 38692, 46508, 16816, 16839, 49937, 49931 AND 49933 MOLECULES
 ; TITLE OF INVENTION: AND USES THEREFOR
 ; FILE REFERENCE: MP103-0180NNIM
 ; CURRENT APPLICATION NUMBER: US/10/377,072
 ; CURRENT FILING DATE: 2003-02-27
 ; PRIOR APPLICATION NUMBER: US 09/895,860
 ; PRIOR FILING DATE: 2001-06-29
 ; PRIOR APPLICATION NUMBER: US 60/215,370
 ; PRIOR FILING DATE: 2000-06-29
 ; PRIOR APPLICATION NUMBER: US 09/723,806
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 ; PRIOR FILING DATE: 2000-04-26
 ; PRIOR APPLICATION NUMBER: US 09/861,801
 ; PRIOR FILING DATE: 2001-05-21
 ; PRIOR APPLICATION NUMBER: US 60/205,508
 ; PRIOR FILING DATE: 2000-05-19
 ; PRIOR APPLICATION NUMBER: US 09/816,494
 ; PRIOR FILING DATE: 2001-03-23
 ; PRIOR APPLICATION NUMBER: US 09/815,419
 ; PRIOR FILING DATE: 2001-03-22
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; NUMBER OF SEQ ID NOS: 114
 ; SEQ ID NO 25
 ; LENGTH: 3544
 ; TYPE: DNA
 ; ORGANISM: Homo Sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (589) ... (2586)
 US-10-377-072-25

Query Match 88.5%; Score 2950; DB 19; Length 3544;
 Best Local Similarity 95.0%; Pred. No. 0;

Matches 3135; Conservative 0; Mismatches 0; Indels 165; Gaps 2;
 Qy 197 GCTTTTCAGTCCAGGTGTAAGCTGTTGGAGCGCGGAGCAAGGTAAAGATGATGTAAATG 256
 Db GCTTTTCAGTCCAGGTGTAAGCTGTTGGAGCGCGGAGCAAGGTAAAGATGATGTAAATG 283
 Qy CGCTGGCTGCTCCAAAGCATCTTTTGTGTGGAAATGGTATTCCAGTCATCTCTTTATGA 316
 Db CGCTGGCTGCTCCAAAGCATCTTTTGTGTGGAAATGGTATTCCAGTCATCTCTTTATGA 343
 Qy ATCAAAATGTGAGGGCTGCTTTTGTGGACGGAGTCTTTTGCAGAGACATCAACGGGAAA 376
 Db ATCAAAATGTGAGGGCTGCTTTTGTGGACGGAGTCTTTTGCAGAGACATCAACGGGAAA 403
 Qy GAGAAAAGAGACATTCATCTGGAGGGCTCTTGCTGAAATGGGTTTAACTCTCTTTTGCC 436
 Db GAGAAAAGAGACATTCATCTGGAGGGCTCTTGCTGAAATGGGTTTAACTCTCTTTTGCC 463
 Qy AGTCACCACCAAGCTGACCTCATACATTTTGTAGTACAAATGGAGTGGCTGAGCCTTTGAGC 496
 Db AGTCACCACCAAGCTGACCTCATACATTTTGTAGTACAAATGGAGTGGCTGAGCCTTTGAGC 523
 Qy ACACCAACCATTCATCATCTGTGGCAAAATTAAGAGAGAGGTGGGAAAAGAGACTTATTG 556
 Db ACACCAACCATTCATCATCTGTGGCAAAATTAAGAGAGAGGTGGGAAAAGAGACTTATTG 583
 Qy TTGTCTATGGGCCATGAGATGATGGAATGGAACCTCAAAATGTTTACTGAGAGGTGGTGGCTGTC 616
 Db TTGTCTATGGGCCATGAGATGATGGAATGGAACCTCAAAATGTTTACTGAGAGGTGGTGGCTGTC 643
 Qy TGGAAAGTGGNACGGAAGAGTGTCTTAATTTGTATAGCCGGCCATTTTGTGGAATACATA 676
 Db TGGAAAGTGGNACGGAAGAGTGTCTTAATTTGTATAGCCGGCCATTTTGTGGAATACATA 703
 Qy CATCCCAATTTTGGAAAGCCATTAATATCAACTGCTCCAAGCTTATGAAGCGAAGTTGTC 736
 Db CATCCCAATTTTGGAAAGCCATTAATATCAACTGCTCCAAGCTTATGAAGCGAAGTTGTC 763
 Qy AACAGGACAAAGTGTAAATACAGAGCTCATCCAGCATTCAGCGAAAACATAAAGGTTGACA 823
 Db AACAGGACAAAGTGTAAATACAGAGCTCATCCAGCATTCAGCGAAAACATAAAGGTTGACA 856
 Qy TTGATTCGAGTCAGAAAGTGTAGTTTACGATCAAAAGCTCCCAAGATGTTGCCTCTCTCT 883
 Db TTGATTCGAGTCAGAAAGTGTAGTTTACGATCAAAAGCTCCCAAGATGTTGCCTCTCTCT 916
 Qy CTTCAGACTGTTTCTCACTGTACTTCTGGGTAAACTGGAGAAGAGCTTCAACTCTGTTC 943
 Db CTTCAGACTGTTTCTCACTGTACTTCTGGGTAAACTGGAGAAGAGCTTCAACTCTGTTC 926
 Qy ACCTGCTTGCAGGTGGGTTTGTGAGTTCTCTCGTTGTTTCCCTGGCCCTCTGTGAAGGAA 1003
 Db ACCTGCTTGCAGGTGGGTTTGTGAGTTCTCTCGTTGTTTCCCTGGCCCTCTGTGAAGGAA 926
 Qy AATCCACTCTAGTCCCTACCTGCAATTTCTCAGCCTTGTCTTACCTGTTGCCAATGTCG 1063
 Db AATCCACTCTAGTCCCTACCTGCAATTTCTTATCTTGGCTGCCAGGAGATGTCCTCAACAGGAGC 932
 Qy CAACCCGAAATTTCCCAATCTTTATCTTGGCTGCCAGGAGATGTCCTCAACAGGAGC 1123
 Db CAACCCGAAATTTCCCAATCTTTATCTTGGCTGCCAGGAGATGTCCTCAACAGGAGC 992
 Qy TGATGCAGCAAAATGGGATTTGTTTAAATGCCAGCAATACCTGTCTCAAAAGCCTG 1183
 Db TGATGCAGCAAAATGGGATTTGTTTAAATGCCAGCAATACCTGTCTCAAAAGCCTG 1052
 Qy ACTTTATCCCGAGTCTCATATTTCTGCGTGTGCGCTGTGAATGACAGCTTTTGTGAGAAA 1243
 Db ACTTTATCCCGAGTCTCATATTTCTGCGTGTGCGCTGTGAATGACAGCTTTTGTGAGAAA 1112
 Qy TTTTGGCCGTGTTGGACAAATCAGTAGATTTTCAATTGAGAAAACCAAGCCTCAATGGAT 1244
 Db TTTTGGCCGTGTTGGACAAATCAGTAGATTTTCAATTGAGAAAACCAAGCCTCAATGGAT 1303

1113 GTGTTCTAGTGCACTGTTTAGCTGGGATCTCCGGTCCGCCACCATCGCTATCGCTACA 1172
1304 GTGTTCTAGTGCACTGTTTAGCTGGGATCTCCGGTCCGCCACCATCGCTATCGCTACA 1363
1173 TCATGAAGAGGATGGACATGTCCTTTAGATGAAGCTTACAGATTTGTGAAGAAAAAGAC 1232
1364 TCATGAAGAGGATGGACATGTCCTTTAGATGAAGCTTACAGATTTGTGAAGAAAAAGAC 1423
1233 CTACTATATCTCCAACTTCAATTTTCTGGGCCAACTCTGGACTATGAGAAGAGATTA 1292
1424 CTACTATATCTCCAACTTCAATTTTCTGGGCCAACTCTGGACTATGAGAAGAGATTA 1483
1293 AGAACACAGCTGAGCATCAGGGCCAAAGAGCAAACTCAAGCTGTCTGCACTCTGGAGAAC 1352
1484 AGAACACAGCTGAGCATCAGGGCCAAAGAGCAAACTCAAGCTGTCTGCACTCTGGAGAAC 1543
1353 CAAATGAACCTGTCCTGCTGTCTCAGAGGGTGGACAGAAAAAGCGAGAGCCCTCAGTTC 1412
1544 CAAATGAACCTGTCCTGCTGTCTCAGAGGGTGGACAGAAAAAGCGAGAGCCCTCAGTTC 1603
1413 CACCCTGTGCGACTCTGCTACTCTCAGAGGACGAGCAAAAGGCCGTGCATCCCGCCA 1472
1604 CACCCTGTGCGACTCTGCTACTCTCAGAGGACGAGCAAAAGGCCGTGCATCCCGCCA 1663
1473 GGTGCCCCAGCGTGGCCAGCGTGCAGCGTCTGCTGTTAGAGACAGCCCGCTGTACAGG 1532
1664 GGTGCCCCAGCGTGGCCAGCGTGCAGCGTCTGCTGTTAGAGACAGCCCGCTGTACAGG 1723
1533 CGCTCAGTGGGTGCACTGTCGCGACAGAGGCTGGAAGACAGCAATAAGCTCAAGCGTT 1592
1724 CGCTCAGTGGGTGCACTGTCGCGACAGAGGCTGGAAGACAGCAATAAGCTCAAGCGTT 1783
1593 CCTTCTCTCGATATCAAACTAGTTTCATATTCAGCGAGCATGGCAGCATCCTTACATG 1652
1784 CCTTCTCTCGATATCAAACTAGTTTCATATTCAGCGAGCATGGCAGCATCCTTACATG 1843
1653 GCTTCTCTCATCAGAAAGATGCTTTGGAACTACTACAAACCTTCCACTCTCTGGATGGGA 1712
1844 GCTTCTCTCATCAGAAAGATGCTTTGGAACTACTACAAACCTTCCACTCTCTGGATGGGA 1903
1713 CCAACAAGCTATGCCAGTTCTCCCTGTTTCAAGAACTATCGGAGCAGATTCGCCGAAACCA 1772
1904 CCAACAAGCTATGCCAGTTCTCCCTGTTTCAAGAACTATCGGAGCAGATTCGCCGAAACCA 1963
1773 GTCTGATGAAGAGGAGCCAGCATCCCAAGAGCTCGAACCTATCGGAGCAGATTCGCCGAAACCA 1832
1964 GTCTGATGAAGAGGAGGAGCCAGCATCCCAAGAGCTCGAACCTATCGGAGCAGATTCGCCGAAACCA 2023
1833 GCCAGAGCAGCATTTGCAATTCGTTGCAACACAGCAGCAGTGGCACCCGCCAGAGTCCC 1892
2024 GCCAGAGCAGCATTTGCAATTCGTTGCAACACAGCAGCAGTGGCACCCGCCAGAGTCCC 2083
1893 TTTTATCTCCACTGCACTCGAAGTGGGAGCGTGAGGACAAATTAACACACAGCTTCCTTT 1952
2084 TTTTATCTCCACTGCACTCGAAGTGGGAGCGTGAGGACAAATTAACACACAGCTTCCTTT 2143
1953 TCGGCTTTTCCAACAGCAGCAGCACTCTCAGAAAGTCTGCTGCGCTCGGCGCTTAAAGGCT 2012
2144 TCGGCTTTTCCAACAGCAGCAGCACTCTCAGAAAGTCTGCTGCGCTCGGCGCTTAAAGGCT 2203
2013 GGCACCTCGGATATCTGGCCCCCAGACCTTACCCCTTCCCTGACCCAGCGTGTATT 2072
2204 GGCACCTCGGATATCTGGCCCCCAGACCTTACCCCTTCCCTGACCCAGCGTGTATT 2263
2073 TTGCCACAGAGTCTCTACACTTCTACTCTGCCTCAGCCATCTACGGAGGAGTSCCAGTT 2132
2264 TTGCCACAGAGTCTCTACACTTCTACTCTGCCTCAGCCATCTACGGAGGAGTSCCAGTT 2323
2133 ACTCTGCTTACAGTGCAGCCAGTGCCTTCCCACTTTCGGAGACCAAGTCTATTCTGTGGCA 2192
2324 ACTCTGCTTACAGTGCAGCCAGTGCCTTCCCACTTTCGGAGACCAAGTCTATTCTGTGGCA 2383

2193 GCGGCGAAGAGCCAAAGTGCAGAGCTGACTCGCGCGGAGCTGGCATGAAGAGAGCCCT 2252
2384 GCGGCGAAGAGCCAAAGTGCAGAGCTGACTCGCGCGGAGCTGGCATGAAGAGAGCCCT 2443
2253 TTGAAAACAGTTTAAACGCGAAGCTGCCAAATCGAAATTTGGAGAGAGCATCATGTGAG 2312
2444 TTGAAAACAGTTTAAACGCGAAGCTGCCAAATCGAAATTTGGAGAGAGCATCATGTGAG 2503
2313 AGAAACAGGTCACGGGAAGAGCTGGGGAAGTGGGAGTCAGTCTAGCTTTTTCGGGAGCA 2372
2504 AGAAACAGGTCACGGGAAGAGCTGGGGAAGTGGGAGTCAGTCTAGCTTTTTCGGGAGCA 2563
2373 TGGAAATCATTTGAGTCTCTCTGAGAGAAAGACACTTGTGACTCTATAGACAAATTTT 2432
2564 TGGAAATCATTTGAGTCTCTCTGAGAGAAAGACACTTGTGACTCTATAGACAAATTTT 2623
2433 TTTCTTGTTCACAAAAAATTCCTGTAAATCTGAAATATATATATATGATACATACATATAT 2492
2624 TTTCTTGTTCACAAAAAATTCCTGTAAATCTGAAATATATATATATGATACATACATATAT 2683
2493 ATTTTGTGAAAAATGAGCTATGTTGTTAAAGCAACAGGTGGATCAACCCAGTTGTACTC 2552
2684 ATTTTGTGAAAAATGAGCTATGTTGTTAAAGCAACAGGTGGATCAACCCAGTTGTACTC 2743
2553 TCTTAAACATCTGCATTTGAGAGATCAGCTAATATCTCTCAACAAAAATGGAAGGCGAG 2612
2744 TCTTAAACATCTGCATTTGAGAGATCAGCTAATATCTCTCAACAAAAATGGAAGGCGAG 2803
2613 ATGCTAGAAATCCCCCTAGAGGAGGAAAAATTTTATTTCAGTGAATTTACACATCTCT 2672
2804 ATGCTAGAAATCCCCCTAGAGGAGGAAAAATTTTATTTCAGTGAATTTACACATCTCT 2863
2673 TGTCTTAAAAAAGCAAGTGTCTTTTGGTGTGGAGGACAAAAATCCCTTACCAATTTTCCAC 2732
2864 TGTCTTAAAAAAGCAAGTGTCTTTTGGTGTGGAGGACAAAAATCCCTTACCAATTTT -CAC 2922
2733 GTTGTGCTACTAAGAGATCTCAAAATTTAGTCTTTTGTCCGAGCCCTTCCATAGTACACT 2792
2923 GTTGTGCTACTAAGAGATCTCAAAATTTAGTCTTTTGTCCGAGCCCTTCCATAGTACACT 2982
2793 TAGCCCTGAGCTGAGCCAGCTTGGGGTTCAGGTAGGTAGACCTGTTTAGGACAGAGCC 2852
2983 TAGCCCTGAGCTGAGCCAGCTTGGGGTTCAGGTAGGTAGACCTGTTTAGGACAGAGCC 3042
2853 TAGTGTGTAATCCAAAGAGAAATGATCTTATCCAAAGCTGATTTCAAAAACCCAGCTCAC 2912
3043 TAGTGTGTAATCCAAAGAGAAATGATCTTATCCAAAGCTGATTTCAAAAACCCAGCTCAC 3102
2913 TGACAGCCGAGGACACGAGCATCTCTGTGCGAGCCATTTAGGGGCTTTGCCAAGG 2972
3103 TGACAGCCGAGGACACGAGCATCTCTGTGCGAGCCATTTAGGGGCTTTGCCAAGG 3162
2973 TCTACCTTAGAGCAAAACCCAGTACCTCAGACAGGAAGTTCGGGGCTTTTACCACTACCAT 3032
3163 TCTACCTTAGAGCAAAACCCAGTACCTCAGACAGGAAGTTCGGGGCTTTTACCACTACCAT 3222
3033 ATCTGTAGCCCATTTTCTAGGCTATTTGTAATAGGTAGTGTAGTGTAGTGTAGTGTAGTGTAG 3092
3223 ATCTGTAGCCCATTTTCTAGGCTATTTGTAATAGGTAGTGTAGTGTAGTGTAGTGTAGTGTAG 3282
3093 CCAATTCAAACTGTCTATGCAAAAAATTCCTGCGGCTTAGATGGAGATAAATTTTTTTTTT 3152
3283 CCAATTCAAACTGTCTATGCAAAAAATTCCTGCGGCTTAGATGGAGATAAATTTTTTTTTT 3342
3153 CTTCTCAGCTTTTATGAGAGAGGGAACCTGTCTAGGATTCAGCTGAACCCAGGAAAC 3212
3343 CTTCTCAGCTTTTATGAGAGAGGGAACCTGTCTAGGATTCAGCTGAACCCAGGAAAC 3402
3213 TGGCAACATCAGATTTAAGCTTAAAGTTTGGAGGCTTAAAGCTTACCTTCTTGTGTA 3272
3403 TGGCAACATCAGATTTAAGCTTAAAGTTTGGAGGCTTAAAGCTTACCTTCTTGTGTA 3462
3273 AATCAAAGAAATTTGTTTAAAAATGGGATTTGTAATTCCTTTTAAATGAAGATGAATGTTGTTTC 3332

Db 3463 AATCAAGAAATGTTTAAATGGGATGTCATCCTTTTAAATAAAGATGAACCTGGTTTC 3522

RESULT 11

US-10-357-930-20824
; Sequence 20824, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20824
; LENGTH: 5145
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 5144, 5145
; OTHER INFORMATION: n = A,T,C or G
US-10-357-930-20824

Query Match 88.5%; Score 2950; DB 20; Length 5145;
Best Local Similarity 95.0%; Pred. No. 0;
Matches 3135; Conservative 0; Mismatches 0; Indels 165; Gaps 2;

QY	197	GCTTTTCAGTCCAGTGTAAGCTGTTGGAGCGCGGAGCAAGGTAAGAAATGATGTAATG	256
Db	224	GCTTTTCAGTCCAGTGTAAGCTGTTGGAGCGCGGAGCAAGGTAAGAAATGATGTAATG	283
QY	257	CGCTGGCTGCTCCAAAGCATCTTTGTTGGAATGGTTATCCAGTCACTCTTTATGA	316
Db	284	CGCTGGCTGCTCCAAAGCATCTTTGTTGGAATGGTTATCCAGTCACTCTTTATGA	343
QY	317	ATCAAAATGTGAGGGGCTGTTTGTGACGGAGTCTTTTGCAAGAGCACATCAACGGGAAA	376
Db	344	ATCAAAATGTGAGGGGCTGTTTGTGACGGAGTCTTTTGCAAGAGCACATCAACGGGAAA	403
QY	377	GAGAAAGACATTCATCTGGAGGGCTCTTGTGAAAATGGGTTTAACTCTCTTTTGGC	436
Db	404	GAGAAAGACATTCATCTGGAGGGCTCTTGTGAAAATGGGTTTAACTCTCTTTTGGC	463
QY	437	AGTCACACCGCTGACCTCATACATCTTTAGTCAATGGAGTGGCTGAGCCTTTGAGC	496
Db	464	AGTCACACCGCTGACCTCATACATCTTTAGTCAATGGAGTGGCTGAGCCTTTGAGC	523
QY	497	ACACCAACCATTAACATCATCGTGGCAAAATTAAGAGAGGAGTGGGAAAAGAGGACTTTATG	556
Db	524	ACACCAACCATTAACATCATCGTGGCAAAATTAAGAGAGGAGTGGGAAAAGAGGACTTTATG	583
QY	557	TTGTCATGCGCCCATGAGATGATTTGGAACCTCAAAATTTGTTACTGAGAGGTTGGTGGCTCTGC	616

Db	584	TTGTCATGCGCCCATGAGATGATTTGGAACCTCAAAATTTGTTACTGAGAGGTTGGTCTCTGC	643
QY	617	TGGAAGTGGAAACGGAATAAGTGTCTGCTAAATTTGATAGCGCGGCCAATTTTGTGGAATACAATA	676
Db	644	TGGAAGTGGAAACGGAATAAGTGTCTGCTAAATTTGATAGCGCGGCCAATTTTGTGGAATACAATA	703
QY	677	CATCCCAATTTTGGAAAGCCATTAATATCAACTCTCTCAAGCTTATGAGCGAAGGTTGC	736
Db	704	CATCCCAATTTTGGAAAGCCATTAATATCAACTCTCTCAAGCTTATGAGCGAAGGTTGC	763
QY	737	AACAGGCAAAAGTCTTAATACAGAGCTCATCCAGCATTCAGCGCAACATCAAGGTTGACA	796
Db	764	AACAGGCAAAAGTCTTAATACAGAGCTCATCCAGCATTCAGCGCAACATCAAGGTTGACA	823
QY	797	TTGATTCAGTCAAGAGGTTGTAGTTTACGATCAAAAGCTCCCAAGATGTTGCCCTCTCTCT	856
Db	824	TTGATTCAGTCAAGAGGTTGTAGTTTACGATCAAAAGCTCCCAAGATGTTGCCCTCTCTCT	883
QY	857	CTTCAGACTGTTTCTCACTGTACTTCTGGGTAAACTGGAGAGAGCTTCAACTCTGTTTC	916
Db	884	CTTCAGACTGTTTCTCACTGTACTTCTGGGTAAACTGGAGAGAGCTTCAACTCTGTTTC	943
QY	917	ACCTGCTTGC	926
Db	944	ACCTGCTTGCAGGTGGGTTTGGCTGAGTCTCTCGTTGTTTCCCTGGCCCTCTGTGAAGAA	1003
QY	927	-----	926
Db	1004	AATCCACTCTAGTCCCTACCTGCAATTTCTCAGCCCTTGCTTACCTGTTGCCAACATTTGGGC	1063
QY	927	-----	926
Db	1064	CAACCCGAATTTCTTCCCAATCTTTTATCTTGGCTGCCAGCGAGATGTCCTCAACAGGAGC	1123
QY	933	TGATGCAGCAATGGGATTTGGTTATGTTTAAATGCCAGCAATACCTGTCCTCAAGAGCCTG	992
Db	1124	TGATGCAGCAATGGGATTTGGTTATGTTTAAATGCCAGCAATACCTGTCCTCAAGAGCCTG	1183
QY	993	ACTTTATCCCCGAGTCTCATTTCTCGCTGCGCTGTGAATGACAGCTTTTGTGAGAAAA	1052
Db	1184	ACTTTATCCCCGAGTCTCATTTCTCGCTGCGCTGTGAATGACAGCTTTTGTGAGAAAA	1243
QY	1053	TTTTGCCGTTGGACAAATCAGTAGATTTTATGAGAAAGCAAAAGCCTCCATGAT	1112
Db	1244	TTTTGCCGTTGGACAAATCAGTAGATTTTATGAGAAAGCAAAAGCCTCCATGAT	1303
QY	1113	GTGTTCTAGTGCACCTGTTTAGCTGGATCTCCCGCTCCGCCACCAATCGCTATCGCTTACA	1172
Db	1304	GTGTTCTAGTGCACCTGTTTAGCTGGATCTCCCGCTCCGCCACCAATCGCTATCGCTTACA	1363
QY	1173	TCATGAAGAGGATGGACATGTCTTTAGATGAAGCTTACAGATTTGTGAAAAGAAAAAGAC	1232
Db	1364	TCATGAAGAGGATGGACATGTCTTTAGATGAAGCTTACAGATTTGTGAAAAGAAAAAGAC	1423
QY	1233	CTACTATCTCCTCAAACTTTCTGGGCAACTCTCGGCACTATGAGAGAGATTA	1292
Db	1424	CTACTATCTCCTCAAACTTTCTGGGCAACTCTCGGCACTATGAGAGAGATTA	1483
QY	1293	AGAACCACTGGAGCATCAGGGCCAAAGAGCAAACTCAAGCTGCTGCACCTGGAGAGAC	1352
Db	1484	AGAACCACTGGAGCATCAGGGCCAAAGAGCAAACTCAAGCTGCTGCACCTGGAGAGAC	1543
QY	1353	CAAAATGAACCTCTCCCTGCTCTCAGAGGGTGGACAGAAAAGCGAGACGCCCTCAGTTC	1412
Db	1544	CAAAATGAACCTCTCCCTGCTCTCAGAGGGTGGACAGAAAAGCGAGACGCCCTCAGTTC	1603
QY	1413	CACCTGTGCGCACTCTGCTACCTCAGAGGAGAGGACAAAGCCCGTGCATCCGGCA	1472
Db	1604	CACCTGTGCGCACTCTGCTACCTCAGAGGAGAGGACAAAGCCCGTGCATCCGGCA	1663
QY	1473	GGTGTCCAGCGTGGCCAGCGTGGACCGTCTGCTTTAGAGGACAGCCCGCTGGTACAGG	1532

Db 1664 GGTGCCCCAGCGTGCCAGCGTGCAGCCGCTCGCTGTGTAGAGACAGCCCGCTGGTACAGG 1723
Qy 1533 CGCTCAGTGGGTGCAACCTGTCGGCAGACAGCGCTGGAAGACAGCAATTAAGCTCAAGCGTT 1592
Db 1724 CGCTCAGTGGGTGCAACCTGTCGGCAGACAGCGCTGGAAGACAGCAATTAAGCTCAAGCGTT 1783
Qy 1593 CCTTCTCTCGGATATCAAAATCAGTTTTCATATTCAGCCAGCATGCGAGCATCCTTACATG 1652
Db 1784 CCTTCTCTCGGATATCAAAATCAGTTTTCATATTCAGCCAGCATGCGAGCATCCTTACATG 1843
Qy 1653 GCTTCTCTCATCAGAAAGATGCTTGGAAATACATAAAACCTTCCACTACTCTGGATGGGA 1712
Db 1844 GCTTCTCTCATCAGAAAGATGCTTGGAAATACATAAAACCTTCCACTACTCTGGATGGGA 1903
Qy 1713 CAAACAAAGTATGCCAGTTCTCCCTGTTTCAGAACTATCGAGCAGAGCTCCCGAAACCA 1772
Db 1904 CAAACAAAGTATGCCAGTTCTCCCTGTTTCAGAACTATCGAGCAGAGCTCCCGAAACCA 1963
Qy 1773 GTCTGATTAAGGAGGAGCCAGCATCCCAAGAGCTGCAGACCGCCAGGCCCTTCAGACA 1832
Db 1964 GTCTGATTAAGGAGGAGCCAGCATCCCAAGAGCTGCAGACCGCCAGGCCCTTCAGACA 2023
Qy 1833 GCCAGAAAGGATTTGCTATTTGGTTCAGAACCMAGCAGCAGTGGCACCGCCGAGAGTCCC 1892
Db 2024 GCCAGAAAGGATTTGCTATTTGGTTCAGAAACCCAGCAGCAGTGGCACCGCCGAGAGTCCC 2083
Qy 1893 TTTTATCTCCACTCGCATCGAAGTGGGAGGTGGAGGACAAATACCAACACAGCTTCCTTT 1952
Db 2084 TTTTATCTCCACTCGCATCGAAGTGGGAGGTGGAGGACAAATACCAACACAGCTTCCTTT 2143
Qy 1953 TCGGCCCTTTCCAGCCAGCAGCACCTCAAGAGTCTGCTGGCCTGGCCCTTTAAGGGCT 2012
Db 2144 TCGGCCCTTTCCAGCCAGCAGCACCTCAAGAGTCTGCTGGCCTGGCCCTTTAAGGGCT 2203
Qy 2013 GGCACCTCGGATATTTGGGCCCCCAGACCTCTACCCCTTCCCTGACGAGAGTGGTATT 2072
Db 2204 GGCACCTCGGATATTTGGGCCCCCAGACCTCTACCCCTTCCCTGACGAGTGGTATT 2263
Qy 2073 TTGCCACAGATCTCACAATTTCTACTCTGCTCAGCCATCTACGAGGAGTGCAGATT 2132
Db 2264 TTGCCACAGATCTCACAATTTCTACTCTGCTCAGCCATCTACGAGGAGTGCAGATT 2323
Qy 2133 ACTCTGCTACAGCTGCAGCAGCTGCCACTTTCGGAGACCAAGTCTATTCTGTGCGCA 2192
Db 2324 ACTCTGCTACAGCTGCAGCAGCTGCCACTTTCGGAGACCAAGTCTATTCTGTGCGCA 2383
Qy 2193 GCGCGCAGAAAGCAAGTGACAGAGTGAATCGCGCGGAGCTGGCATGAGAGAGCCCT 2252
Db 2384 GCGCGCAGAAAGCAAGTGACAGAGTGAATCGCGCGGAGCTGGCATGAGAGAGCCCT 2443
Qy 2253 TTGAAAAGCAGTTTAAACGAGAGCTGCCAAATGGAATTTGGAGAGCATCATGTCAG 2312
Db 2444 TTGAAAAGCAGTTTAAACGAGAGCTGCCAAATGGAATTTGGAGAGCATCATGTCAG 2503
Qy 2313 AGAACAGGTCAAGGAGAGCTGGGAAAGTGGGAGTCAAGTCTAGCTTTTCGGGAGCA 2372
Db 2504 AGAACAGGTCAAGGAGAGCTGGGAAAGTGGGAGTCAAGTCTAGCTTTTCGGGAGCA 2563
Qy 2373 TGGAAATCATTTGAGGTCTCTGAGAGAAAGACACTTGTGACTTCTATAGACAAATTTT 2432
Db 2564 TGGAAATCATTTGAGGTCTCTGAGAGAAAGACACTTGTGACTTCTATAGACAAATTTT 2623
Qy 2433 TTTCTTTTCAAAAAAATTCCTGTAAATCTGAAATATATATATATATATATATATATAT 2492
Db 2624 TTTCTTTTCAAAAAAATTCCTGTAAATCTGAAATATATATATATATATATATATATAT 2683
Qy 2493 ATTTTGGAAAAATGAGCTATGTTTAAAGCAACAGTGGATCAACCCAGTTGTTACTC 2552
Db 2684 ATTTTGGAAAAATGAGCTATGTTTAAAGCAACAGTGGATCAACCCAGTTGTTACTC 2743
Qy 2553 TCTTAACATCTGCAATTTGAGAGATCAGCTAATATCTTCTCAACAAAAATGGAAGGCGAG 2612
Db 2744 TCTTAACATCTGCAATTTGAGAGATCAGCTAATATCTTCTCTCAACAAAAATGGAAGGCGAG 2803

Qy 2613 ATGCTAGAATCCCCCTAGACGAGGAAAAACCATTTTATTTCAGTGAATTAACATTCCTCT 2672
Db 2804 ATGCTAGAATCCCCCTAGACGAGGAAAAACCATTTTATTTCAGTGAATTAACATTCCTCT 2863
Qy 2673 TGTTCCTTAAAAAAGCAAGTGTCTTGGTGTGGAGGACAAATCCCTTACCATTTTCCAC 2732
Db 2864 TGTTCCTTAAAAAAGCAAGTGTCTTGGTGTGGAGGACAAATCCCTTACCATTTT-CAC 2922
Qy 2733 GTTGTGCTTACTAAGAGATCTCAAAATATTAGTCTTTGTCCGAGCCCTTCCATAGTACACT 2792
Db 2923 GTTGTGCTTACTAAGAGATCTCAAAATATTAGTCTTTGTCCGAGCCCTTCCATAGTACACT 2982
Qy 2793 TAGCGCTGAGACTGAGCCAGCTTGGGGTCAAGTGTAGGTAGACCCCTGTAGGGACAGAGCC 2852
Db 2983 TAGCGCTGAGACTGAGCCAGCTTGGGGTCAAGTGTAGGTAGACCCCTGTGTAGGGACAGAGCC 3042
Qy 2853 TAGTGTAAATCCCAAGAGAAATGATCTTATCCAAAGCTGATTCAAAACCCACCGCTCAAC 2912
Db 3043 TAGTGTAAATCCCAAGAGAAATGATCTTATCCAAAGCTGATTCAAAACCCACCGCTCAAC 3102
Qy 2913 TGACAGCCGAGGACACAGCATCACTCTGTGGACGGACCATTTAGGGGCCCTTGCAGAG 2972
Db 3103 TGACAGCCGAGGACACAGCATCACTCTGTGGACGGACCATTTAGGGGCCCTTGCAGAG 3162
Qy 2973 TCTACTTTAGAGCAAAACCCAGTACTCAGACAGGAAAGTGGGGCTTTTGACACTACCAT 3032
Db 3163 TCTACTTTAGAGCAAAACCCAGTACTCAGACAGGAAAGTGGGGCTTTTGACACTACCAT 3222
Qy 3033 ATCTGGTAGCCCATTTTCTAGGCATTTGGAATAGTAGTAGTAGTACACTTTTTCAGA 3092
Db 3223 ATCTGGTAGCCCATTTTCTAGGCATTTGGAATAGTAGTAGTAGTACACTTTTTCAGA 3282
Qy 3093 CCAATTTCAAACTGTCTATGCACAAATTTCCCGTGGGCCCTAGATGAGAGATAATTTTTTT 3152
Db 3283 CCAATTTCAAACTGTCTATGCACAAATTTCCCGTGGGCCCTAGATGAGAGATAATTTTTTT 3342
Qy 3153 CTTCCTAGCTTTATGAAGAGAGGAAACTGTCTAGGATTCAGCTGAAACCCAGAGAAC 3212
Db 3343 CTTCCTAGCTTTATGAAGAGAGGAAACTGTCTAGGATTCAGCTGAAACCCAGAGAAC 3402
Qy 3213 TGGCAACATCAGATTTAAGCTTAAGTTGGGAGGCTAACGAGTCTACCTCCCTCTTTGTA 3272
Db 3403 TGGCAACATCAGATTTAAGCTTAAGTTGGGAGGCTAACGAGTCTACCTCCCTCTTTGTA 3462
Qy 3273 AATCAAGAAATTTGTTTAAATGCGGATTTCAATCTTTTAAATAAAGATGAACTTGGTTTC 3332
Db 3463 AATCAAGAAATTTGTTTAAATGCGGATTTCAATCTTTTAAATAAAGATGAACTTGGTTTC 3522

RESULT 12
US-10-357-930-20969
; Sequence 20969, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314

Qy	927	-----	927	
Db	1004	AAATCACTCTAGTCCCTA	CTGCTTCTCAGGCTTGCTTACTGTTGGCAACAATGGCG	1063
Qy	927	-----	927	
Db	1064	CAACCCGAATCTTCCAA	TCTTTATCTTGGCTGCCAGCAGATGCTCTCAACNAGAGCG	1123
Qy	933	TGATGACGACGAATGGG	ATTGTTATGTGTTAAATGCCAGCAATACCTGTCCTCAAGCGCTG	992
Db	1124	TGATGACGACGAATGGG	ATTGTTATGTGTTAAATGCCAGCAATACCTGTCCTCAAGCGCTG	1183
Qy	993	ACTTTATCCCGAGTCT	CAATTCCTCGGTGTGCTGTGAAATGACAGCTTTTGTGAGAAAA	1052
Db	1184	ACTTTATCCCGAGTCT	CAATTCCTCGGTGTGCTGTGAAATGACAGCTTTTGTGAGAAAA	1243
Qy	1053	TTTTGCCGTGGTGGG	CAAAATCAGTAGATTTCAATTTGAGAAAGCAAAAGCCTCCAATCGAT	1112
Db	1244	TTTTGCCGTGGTGGG	CAAAATCAGTAGATTTCAATTTGAGAAAGCAAAAGCCTCCAATCGAT	1303
Qy	1113	GTGTTCTAGTGCACT	GTGTTAGCTGGGATCTCCCGCTCCGACCATCGCTATCGCCTACA	1172
Db	1304	GTGTTCTAGTGCACT	GTGTTAGCTGGGATCTCCCGCTCCGACCATCGCTATCGCCTACA	1363
Qy	1173	TCATGAAAGGATGGG	ACATGCTCTTTAGATGAAGCTTACAGATTTGTGAAAGAAAAAGAC	1232
Db	1364	TCATGAAAGGATGGG	ACATGCTCTTTAGATGAAGCTTACAGATTTGTGAAAGAAAAAGAC	1423
Qy	1233	CTACTATATCTCCAA	CTTCAATTTTCTGGGCAACTCTGGAATATGAGAAAGAAATTA	1292
Db	1424	CTACTATATCTCCAA	CTTCAATTTTCTGGGCAACTCTGGAATATGAGAAAGAAATTA	1483
Qy	1293	AGAACGAGCTGGG	ACATCAGGGCCAAAGACGCAAACTCAAGCTGCTGCACCTGGAGAGC	1352
Db	1484	AGAACGAGCTGGG	ACATCAGGGCCAAAGACGCAAACTCAAGCTGCTGCACCTGGAGAGC	1543
Qy	1353	CAAAATGAACCTGT	CCCTGCTGTCTCAGAGGGTGGACAGAAAGCGAGACGCGCTCTCAGTC	1412
Db	1544	CAAAATGAACCTGT	CCCTGCTGTCTCAGAGGGTGGACAGAAAGCGAGACGCGCTCTCAGTC	1603
Qy	1413	CACCTGTGCGGACT	CTGCTTACCTCAGAGGACGACAGCAAAAGCCCGTGCATCCCGCCA	1472
Db	1604	CACCTGTGCGGACT	CTGCTTACCTCAGAGGACGACAGCAAAAGCCCGTGCATCCCGCCA	1663
Qy	1473	CGGTGCCAGCTG	CCGACGGTGCAGCCGTGCTGTTAGAGGACAGCCCGCTGGTACAGG	1532
Db	1664	CGGTGCCAGCTG	CCGACGGTGCAGCCGTGCTGTTAGAGGACAGCCCGCTGGTACAGG	1723
Qy	1533	CGCTCAGTGGGCTG	CACTCTGCGCAGACAGGCTGGGAAGACAGCAATAAGCTCAAGCGTT	1592
Db	1724	CGCTCAGTGGGCTG	CACTCTGCGCAGACAGGCTGGGAAGACAGCAATAAGCTCAAGCGTT	1783
Qy	1593	CGTTCTCTGCGAT	ATCAAAATCAGTTTCATATTCAGCGCAGCATGGCAGCATCCTTACATG	1652
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Qy	1653	GCCTCTCTCAT	CAGAGAGTCTTTGGAATACTACAAACCTTCACACTCTCGATGGGA	1712
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Qy	1773	GTCTGTATAGGAG	GAAGCCAGCATCCCAAGAAAGCTGCAGACCGCCAGGCTTTCAGACA	1833
Db	1964	GTCTGTATAGGAG	GAAGCCAGCATCCCAAGAAAGCTGCAGACCGCCAGGCTTTCAGACA	2023
Qy	1833	GCCAGACGACGAT	TTCATTTGCTGTCAGAACCCAGCAGTGGCACCGCCAGAGGTCCTCC	1893
Db	2024	GCCAGACGACGAT	TTCATTTGCTGTCAGAACCCAGCAGTGGCACCGCCAGAGGTCCTCC	2083
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Db 404 GAGAAAGAGACATTCACCTTGGAGGGCTTGTCTGAAATGGTTTAACTCTCTTTTGGC 463
Qy 437 AGTCACCAACGAGCTGACCTCATACATTTTGTAGTACAAATTTGATGAGTGGCTTGAGC 496
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Qy 497 ACACCAACCATCATCATCGTGGCAAAATTAAGAAAGGAGGTGGGAAAAAGAGACCTTATG 556
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Db 884 CTTGACACTGTTTCTCACTGACTCTTGGGTAATCTGGGTAATCTGAGAGAGCTTCAACTCTGTT 943
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Db 944 ACTGCTTGCAGGTGGGTTTGTGAGTCTCTCTGTTTTCCTGGCCTCTGTGAAGGAA 1003
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US-10-357-930-21303
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; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlögel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21303

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; LENGTH: 5145
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 5144, 5145
; OTHER INFORMATION: n = A,T,C or G
US-10-357-930-21303

Query Match      88.5%; Score 2950; DB 20; Length 5145;
Best Local Similarity 95.0%; Pred. No. 0;
Matches 3135; Conservative 0; Mismatches 0; Indels 165; Gaps 2;

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Db 944 ACCTGCTTGCAGGTGGGTTTGTCTGAGTTCTCTCGTTGTTTCCCTGCGCTCTGTGAAGAA 1003
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Db 1004 AATCCACTCTAGTCCCTACCTGCAATTTCTCAGCCCTTGCTTACCTGTTGCAACATTTGGC 1063
QY 927 -----AGGAGC 932
Db 1064 CAACCCGAATTTCTCCCAATCTTTATCTTGGTGCACGAGATGTCCTCTCAACAGGAGC 1123

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GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: September 1, 2005, 11:02:30 ; Search time 957 Seconds
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Perfect score: 2668

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a

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and is derived by analysis of the total score distribution.

SUMMARIES

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ALIGNMENTS

RESULT 1

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; Sequence 20, Application US/09964277
; Patent No. US20020137170A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-16 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125.434
; CURRENT APPLICATION NUMBER: US/09/964,277
; CURRENT FILING DATE: 2001-09-25
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 3332
; TYPE: DNA

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; ORGANISM: Homo sapiens
US-09-964-277-20

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Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

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Qy 41 LeuAsnAlaSerAsnThrCysProLysProAspPheIleProGluSerHisPheLeuArg 60
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; Patent No. US20020034807A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel A.
; TITLE OF INVENTION: 38692 AND 21117, NOVEL DUAL SPECIFICITY
; FILE REFERENCE: 10448-030002
; CURRENT APPLICATION NUMBER: US/09/816,494
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/191,858
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1998
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-816-494-3

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Db 640 AGCTTTTGTGAGAAATTTTGGCGGTGTGGCAAAATCAGTAGATTTTCATTGGAAGCA 699
Qy 86 LysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr 105
Db 700 AAAGCCTCAATGGATGTTCTAGTGCACTGTTAGTGGGATCTCCGCTCCGCCACC 759
Qy 106 IleAlaIleAlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPhe 125
Db 760 ATCGCTATCGCTACATCATGATGAAGAGTGGACATGTCTTTAGATCAAGCTTTACAGATTT 819
Qy 126 ValLysGluLysArgProThrIleSerProAsnPheAsnPheLeuGlyClnLeuLeuAsp 145
Db 820 GTGAAAGAAAGAAAGCACTACTATATCTCCAAATCTTCAATTTTCTGGGCCAACTCTCTGGAC 879
Qy 146 TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLysLeu 165
Db 880 TATGAGAGAGATTAAGAACACAGCTGGAGATCAGGGCCCAAGAGCAAACTCAAGCTG 939
Qy 166 LeuHisLeuGluLysProAsnGluProValProAlaValSerGluGlyGlnLysSer 185
Db 940 CTGCACCTGGAGAAGCAAAATGAACCTGTCCCTGCTGTCTCAGAGGGTGGACAGAAAGC 999
Qy 186 GluThrProLeuSerProProCysAlaAspSerAlaThrSerGluAlaIleGlnArg 205
Db 1000 GAGACGCCCTCAGTCCACCTGTGCGCATCTGTCTACCTCAGAGCAGCAGCAAAAGG 1059
Qy 206 ProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAsp 225
Db 1060 CCGTGCATCCCCCAGCGTCCAGCGTCCAGCGTCCAGCGTCCAGCGTCCAGCGTCCAGCGT 1119
Qy 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
Db 1120 AGCCCCGTGGTACAGCGCTCAGTGGCTGCACCTGTCCGACAGAGCTGGGAAGACAGC 1179
Qy 246 AsnLysLeuLysArgSerPheSerLeuAspIleLysSerValSerTyrSerAlaSerMet 265
Db 1180 AATAAGCTCAAGGTTCTCTCTCTGATATCAAAATCAGTTTTCATATTCAGCCAGCATG 1239
Qy 266 AlaAlaSerLeuHisGlyPheSerSerSerGluAspAlaLeuGluTyrTyrLysProSer 285
Db 1240 GCAGCATCTTATCATGCTTCTCTCTCATCAGAGATGCTTTTGAATACTACAAACCTTCC 1299
Qy 286 ThrThrLeuAspGlyThrAsnLysLeuCysGlnPheSerProValGlnGluLeuSerGlu 305
Db 1300 ACTACTCTGGATGGGACCAACAGCTATGCCAGTTCTCCCTGTTTCCAGGAACCTATCGGAG 1359

Qy 306 GlnThrProGluThrSerProAspLysGluLysLeuAlaSerIleProLysLysLeuGlnThr 325
Db 1360 CAGACTCCGAAACCAAGTCTCTGATAAGAGGAGCAGCATCCCAAGAGCTGCAGACC 1419
Qy 326 AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerSerGly 345
Db 1420 GCCAGGCTTTCAGACAGCCAGAGCAAGATTCATTCGGTTCAGAACCCAGCAGAGTGGC 1479
Qy 346 ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAspAsnTyr 365
Db 1480 ACCGCCCAGAGTCCCTTTTATCTCCACTGATCGAAGTGGAGCGTGGAGGACAAATTAC 1539
Qy 366 HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly 385
Db 1540 CACACCACTCTCTTTTCGGCTTTCACCAAGCAGCAGCACCTCAGCAAGTCTGCTGGC 1599
Qy 386 LeuGlyLeuLysGlyTyrHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
Db 1600 CTGGGCTTAAAGGCTGGCAGCTCGGATATCTTGGCCCCCAGAGCTCTTACCCCTTCCCTG 1659
Qy 406 ThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
Db 1660 ACCAGAGCTGGTATTTTGGCAGAGTCTCTCACATCTTACTTGTCTCAGCCATCTAC 1719
Qy 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln 445
Db 1720 GGAGCAGTCCAGTTACTCTGCTTACAGCTGCAGCAGCTGCCACCTTGGCGAGACCAA 1779
Qy 446 ValTyrSerValArgArgArgGlnLysProSerAspArgAlaAspSerArgSerTrp 465
Db 1780 GTCTATTCTGTGCGCAGCGCGCAGAACCAAGTGCAGAGCTGACTCTCGCGCGAGCTGG 1839
Qy 466 HisGluGluSerProPheGluLysGlnPheLysArgArgSerCysGlnMetGluPheGly 485
Db 1840 CATGAGAGAGCCCTTTGAAAAGCAGTTTAAACGAGAGCTGCCAATGGAAATTGGA 1899
Qy 486 GluSerIleMetSerGluAsnArgSerArgGluGluLeuGlyLysValGlySerGlnSer 505
Db 1900 GAGAGCATGTCAGAGAACAGGTTCACGGAGAGCTGGGMAAGTGGGAGTGGCAGTCT 1959
Qy 506 SerPheSerGlySerMetGluIleLeuValSer 517
Db 1960 AGCTTTTTCGGCAGCATGGAATCATTTGAGGTCTCC 1995

RESULT 3
US-10-377-072-27
Sequence 27, Application US/10377072
Publication No. US20040009501A1
GENERAL INFORMATION:
APPLICANT: Millennium Pharmaceuticals Inc.
APPLICANT: Curtis, Rory A.J.
APPLICANT: Logan, Thomas Joseph
APPLICANT: Glucksman, Maria A.
APPLICANT: Meyers, Rachel E.
APPLICANT: Williamson, Mark J.
APPLICANT: Rudolph-Owen, Laura A.
APPLICANT: Chun, Miyoung
APPLICANT: Tsai, Fong-Ying
TITLE OF INVENTION: NOVEL 25869, 25934, 26335, 50365, 21117,
TITLE OF INVENTION: 38692, 46508, 16816, 16839, 49937, 49931 AND 49933 MOLECULES
TITLE OF INVENTION: AND USES THEREFOR
FILE REFERENCE: MPI03-0180NMIM
CURRENT APPLICATION NUMBER: US/10/377,072
CURRENT FILING DATE: 2003-02-27
PRIOR APPLICATION NUMBER: US 09/895,860
PRIOR FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: US 60/215,370
PRIOR FILING DATE: 2000-06-29
PRIOR APPLICATION NUMBER: US 09/723,806
PRIOR FILING DATE: 2000-11-28
PRIOR APPLICATION NUMBER: US 60/187,455
PRIOR FILING DATE: 2000-03-07

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; PRIOR APPLICATION NUMBER: US 09/843,297
; PRIOR FILING DATE: 2001-04-25
; PRIOR APPLICATION NUMBER: US 60/199,801
; PRIOR FILING DATE: 2000-04-26
; PRIOR APPLICATION NUMBER: US 09/861,801
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 60/205,508
; PRIOR FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: US 09/816,494
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 09/815,419
; PRIOR FILING DATE: 2001-03-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 1998
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1998)
US-10-377-072-27

Alignment Scores:
Pred. No.: 4,43e-251 Length: 1998
Score: 2606.00 Matches: 516
Percent Similarity: 90.21% Conservative: 0
Best Local Similarity: 90.21% Mismatches: 1
Query Match: 97.68% Indels: 56
DB: 17 Gaps: 1

US-09-964-277-21 (1-517) x US-10-377-072-27 (1-1998)

QY 1 MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArgArg 20
Db 281 ATGTTGGCTCTCTCTTCAGACTGTTTCTCAGTACTTCTGGTAACTGGGAGAGA 340
QY 21 AlaSerThrLeuPheThrCysLeuGln----- 29
Db 341 GCTTCAACTCTGTTCACTGCTTGCA-GGTGGGTTTGCTGAGTTCTCTCGTTGTTCCCT 399
QY 29 ----- 29
Db 400 GGCCTCTGTGAAGGAAATCCACTAGTCCCTACCTGCAATTTCTCAGCCTTGCTTACCT 459
QY 29 ----- 29
Db 460 GTTGCCACATTTGGGCCAACCGAATCTTCCCAATCTTATCTTGGCTGCCAGCGAGAT 519
QY 30 ----- GluLeuMetGlnGlnAsnGlylleGlyTyrValLeuAsnAlaSerAsn 45
Db 520 GTCCCTCAACAGGAGCTGATGACAGAGAATGGATTGGTTATGTTAAATGCCAGCAAT 579
QY 46 ThrCysProLysProAspPheileProGluSerHisPheLeuArgValProValAsnAsp 65
Db 580 ACCTGTCCAAAGCCGTACTTTATCCCGAGTCTCATTTCTCGGTGCTGCTGTAATGAC 639
QY 66 SerPheCysGluLysIleLeuProTrpLeuAspLysSerValAspPheilleGluLysAla 85
Db 640 AGCTTTTGTGAGAAATTTGCGGTGGTGGCAATCAGTAGATTTTCATTGAGAAAGCA 699
QY 86 LysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr 105
Db 700 AAAGCCTCCAAATGGATGTTCTAGTGCACTGTTTAGCTGGGATCTCCCGCTCCGCCACC 759
QY 106 IleAlaIleAlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPhe 125
Db 760 ATCGCTATCGCTACATCATGAAGAGGATGGACATGCTCTTTAGATGAAGCTTACAGATT 819
QY 126 ValLysGluLysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAsp 145
Db 820 GTGAAAGAAAAAGACCTACTATATCTCCAAACTTCAATTTTCTGGGCCAACTCTCTGGAC 879

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QY 146 TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeu 165
Db 880 TATGAGAAGAAGATTAAAGAACCGAGCTGGAGCATCAGGGCCAAAGAGCAAACTCAAGCTG 939
QY 166 LeuHisLeuGluLysProAsnGluProValProAlaValSerGluGlyGlyGlnLysSer 185
Db 940 CTGCACCTGGAGAAGCCAAATGAACCTGTCCCTGCTGTCTCAGAGGGTGGACAGAAAGC 999
QY 186 GluThrProLeuSerProProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArg 205
Db 1000 GAGAGCCCCCTCAGTCCACCTGTGCCGACTCTCTACCTCAGAGGCGAGGACAAAGG 1059
QY 206 ProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAsp 225
Db 1060 CCGGTGCATCCCGCAGCGTCCCGAGCGTCCCGAGCGTGCAGCGCTGCTCTTTAGAGAC 1119
QY 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
Db 1120 AGCCCGCTGGTACAGGCGCTCAGTGGCTGCACCTGTCCGACAGAGCTGGAGACAGC 1179
QY 246 AsnLysLeuLysArgSerPheSerLeuAspLysSerValSerTyrSerAlaSerMet 265
Db 1180 AATAAGCTCAAGCGTTCCTTCTCTCGATATCAATCAGTTTCATATTTCAGCGCAGCATG 1239
QY 266 AlaAlaSerLeuHisGlyPheSerSerSerGluAspAlaLeuGluTyrTyrLysProSer 285
Db 1240 GCAGCATCCTTACATGGCTTCTCTCATCAGAAAGTCTTTGGAATACACAAACCTTCC 1299
QY 286 ThrThrLeuAspGlyThrAsnLysLeuCysGlnPheSerProValGlnGluLeuSerGlu 305
Db 1300 ACTACTCTGGATGGGACCAACAGCTATGCCAGTTCTCCCTGTTTCAGGAACCTATCGGAG 1359
QY 306 GlnThrProGluThrSerProAspLysGluGluAlaSerIleProLysLysLeuGlnThr 325
Db 1360 CAGACTCCGAAACAGTCTCTGTATAGAGGAGGAGCAGCATCCCAAGAACTGCAGACC 1419
QY 326 AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerSerGly 345
Db 1420 GCCAGGCTTCAGACAGCCAGAGCAAGCATTCGATTCCGGTTCAGAACAGCAGCAGTGCC 1479
QY 346 ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAspAsnTyr 365
Db 1480 ACCGCCCAGAGTCCCTTTTATCTCCACTGCATCGAAGTGGAGCGTGGAGGACAAATTAC 1539
QY 366 HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly 385
Db 1540 CACACAGCTTCTCTTTCGGCTTTTCCACAGCCAGCAGCACCTCACGAAGTCTGCTGCGC 1599
QY 386 LeuGlyLysLeuGlyTyrHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
Db 1600 CTGGGCTTAAAGGCTGGCACTCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTG 1659
QY 406 ThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
Db 1660 ACCAGAGCTGTTATTTTGGCCAGAGTCTCTCACATCTACTCTGCTCAGCCATCTAC 1719
QY 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln 445
Db 1720 GGAGGAGTGGCAGTTACTCTGCTTACAGCTGCAGCCAGCTGCCACCTTGGGGAGACCAA 1779
QY 446 ValTyrSerValArgArgArgGlnLysProSerPheArgAlaAspSerArgSerTrp 465
Db 1780 GTCTATTCTGTGCGAGCGCGCAGAGCAAGTGAAGAGCTGACTCGCGGGAGCTGG 1839
QY 466 HisGluGluSerProPheGluLysGlnPheLysArgArgSerCysGlnMetGluPheGly 485
Db 1840 CATGAAGAGACCCCTTTGAAAGACAGTTTAAACGAGAGCTGCCAAATGGAATTGGA 1899
QY 486 GluSerIleMetSerGluAsnArgSerArgGluGluLeuGlyLysValGlySerGlnSer 505
Db 1900 GAGAGCATCATGTAGAGAAACAGGTCAAGGGAAGAGCTGGGGAAAGTGGGCGAGTCAGTCT 1959

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QY 506 SerPheSerGlySerMetGluLeuIleGluValSer 517
DB 1960 AGCTTTTCGGGAGGATGGAATCATTTGAGGTCTCC 1995

RESULT 4
US-10-377-072-27
; Sequence 27, Application US/10377072
; Publication NO. US20040157221A9
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals Inc.
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Logan, Thomas Joseph
; APPLICANT: Glucksmann, Maria A.
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Williamson, Mark J.
; APPLICANT: Rudolph-Owen, Laura A.
; APPLICANT: Chun, Miyoung
; APPLICANT: Tsai, Fong-Ying
; TITLE OF INVENTION: NOVEL 25869, 25934, 26335, 50365, 21117,
; TITLE OF INVENTION: 38692, 46508, 16816, 16839, 49937, 49931 AND 49933 MOLECULES
; TITLE OF INVENTION: AND USES THEREFOR
; FILE REFERENCE: MP103-0180NMIM
; CURRENT APPLICATION NUMBER: US/10/377,072
; CURRENT FILING DATE: 2003-02-27
; PRIOR APPLICATION NUMBER: US 09/895,860
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/215,370
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: US 09/723,806
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 60/187,455
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 09/843,297
; PRIOR FILING DATE: 2001-04-25
; PRIOR APPLICATION NUMBER: US 60/199,801
; PRIOR FILING DATE: 2000-04-26
; PRIOR APPLICATION NUMBER: US 09/861,801
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 60/205,508
; PRIOR FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: US 09/816,494
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 09/815,419
; PRIOR FILING DATE: 2001-03-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 1998
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)....(1998)
US-10-377-072-27

Alignment Scores:
Pred. No.: 4,43e-251 Length: 1998
Score: 2606.00 Matches: 516
Percent Similarity: 90.21% Conservative: 0
Best Local Similarity: 90.21% Mismatches: 1
Query Match: 97.68% Indels: 56
DB: 19 Gaps: 1

US-09-964-277-21 (1-517) x US-10-377-072-27 (1-1998)

QY 1 MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArgArg 20
DB 281 ATGTTGCCCTCTCTCTTCAGACTGTTTCTCACTGTTCTCGGGTAAACTGGAGAAGA 340
QY 21 AlaSerThrLeuPheThrCysLeuGln----- 29
DB 341 GCCTCAACTCTGTTCACTGCTTGA- GGTGGGTTTGGCTGAGTTCTCTCGTTGTTTCCCT 399
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QY 29 ----- 29
DB 400 GGCCTCTGTGAAGAAATCCACTCTAGTCCCTACCTGCAATTTCTACGCTTGTCTTACCT 459
QY 29 ----- 29
DB 460 GTTCCCAACATTGGGCGCAACCCGAATTTCTCCCAATCTTTATCTTGGTGCAGCGAGAT 519
QY 30 -----GluLeuMetGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsn 45
DB 520 GTCCTCAACAAGAGAGCTGATGCAGCAGATGGGATGGTTATGTTGTTAAATGCCAGCAAT 579
QY 46 ThrCysProLysProAspPheIleProGluSerHisPheLeuArgValProValAsnAsp 65
DB 580 ACCTGTCCAAAGCGCTACTTTATCCCGAGTCTCATTTCTCCGCGTGTGCTGTGAATGAC 639
QY 66 SerPheCysGluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAla 85
DB 640 AGCTTTTGTGAGAAATTTTCCCGTGGTGGACAAATCAGTAGATTTTCATTGAGAAAGCA 699
QY 86 LysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr 105
DB 700 AAAGCTCCCAATGGATGGTCTAGTGACATGTTTAGCTGGGATCTCCGCTCCGCCACC 759
QY 106 IleAlaIleAlaTyrIleMetLysArgMetSerLeuAspGluAlaTyrArgPhe 125
DB 760 ATCGCTATCGCTACTCATCATGAAGAGGATGCATGTTCTTTAGATGAAGCTTACAGATTT 819
QY 126 ValLysGluLysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAsp 145
DB 820 GTGAAGAGAAAAAGACCTACTATATCTCCAAATTTCAATTTTCTGGGCAACTCTCTGGAC 879
QY 146 TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeu 165
DB 880 TATGAGAAGAAGATTAAAGACCAAGCTGGAGCATCAGGCCCAAGAGCAAACTCAAGCTG 939
QY 166 LeuHisLeuGluLysProAsnGluProValProAlaValSerGluGlyGlnLysSer 185
DB 940 CTGCACCTGGAGAGCCAAATGAACCTGTCCTGCTGTTCTCAGAGGGTGGACAGAAAGC 999
QY 186 GluThrProLeuSerProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArg 205
DB 1000 GAGAGCGCCCTCAGTCCACCTGTGTCGACTCTGTCTACTCTCAGAGCGCAGCAGCAAGG 1059
QY 206 ProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAsp 225
DB 1060 CCCGTGCATCCCGCAGCGTCCCGAGCGTCCCGAGCGTCCCGAGCGTCCCGTGTAGAGGAC 1119
QY 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
DB 1120 AGCCCGCTGTGTACAGCGCTCAGTGGGCTGCACCTGTCCGAGCAGCAGCGTGGAGACAGC 1179
QY 246 AsnLysLeuLysArgSerPheSerLeuAspLysSerValSerValSerLysSerMet 265
DB 1180 AATAAGCTCAAGCGTTCCTCTCTCTGGATATCAAAATCAGTTTCTATATTCAGCCAGCATG 1239
QY 266 AlaAlaSerLeuHisGlyPheSerSerGluAspAlaLeuGluTyrTyrLysProSer 285
DB 1240 GCAGCATCTTACATGGGCTTCTCTCATCAGAAAGATGCTTTTGGAAATCTTACAAACTTCC 1299
QY 286 ThrThrLeuAspGlyThrAsnLysLeuCysGlnPheSerProValGlnGluLeuSerGlu 305
DB 1300 ACTACTCTGGATGGGACCAACAGCTATGCCAGTTCTCCCTGTTTCAGGAACATATCGGAG 1359
QY 306 GlnThrProGluThrSerProAspLysGluAlaSerIleProLysLysLeuGlnThr 325
DB 1360 CAGACTCCGAAACCAGTCTCTGATAAGGAGGAAGCAGCATCCCCAAGAAAGCTGCAGACC 1419
QY 326 AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerGly 345
DB 1420 GCCAGGCGCTTCAGACGCGCAGCAAGCGATTGCAATTCGTTCCGTCAGAACCCAGCAGCTGTC 1479
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QY 346 ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAspAsnTyr 365
Db 1480 ACCGCCAGAGGTCCCTTTATCTCCACTCGAAGTGGGAGCGTGGAGCAATTAC 1539
QY 366 HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly 385
Db 1540 CACACCAGCTTCCTTTTCGGCCTTCCACAGCAGCAGCAGCCTCACGAAGTCTGCTGGC 1599
QY 386 LeuGlyLeuLysGlyTrpHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
Db 1600 CTGGCCCTTAAGGGCTGGCACTCGGATATCTTGGCCCCCAGAGCCTCTACCCCTTCCCTG 1659
QY 406 ThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
Db 1660 ACCAGCAGCTGGTATTTTGGCCACAGAGTCCCTACACTTCTACTCTGCTCAGCCATCTAC 1719
QY 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln 445
Db 1720 GGAGGAGTGGCCAGTTACTCTGCTTACAGCTGCAGCCAGCTGCCACTTGGCGAGACCA 1779
QY 446 ValTyrSerValArgArgGlnLysProSerAspArgAlaAspSerArgSerTrp 465
Db 1780 GTCTATTCTGTGCGCAGCGCGCAGAAAGCAAGTGACAGAGCTGACTCGCGCGGAGCTGG 1839
QY 466 HisGluGluSerProPheGluLysGlnPheLysArgArgSerCysGlnMetGluPheGly 485
Db 1840 CATGAAGAGAGCGCCCTTTTGAAGAAGAGATTTAAACGCAGAAAGCTGCCAAATGGAAATTTGGA 1899
QY 486 GluSerIleMetSerGluAsnArgSerArgGluGluLeuGlyLysValGlySerGlnSer 505
Db 1900 GAGACATCATGTCAGAGAACAGGTTCACGGNAGAGCTGGGGAAAGTGGGCAAGTCAGTCT 1959
QY 506 SerPheSerGlySerMetGluIleIleGluValSer 517
Db 1960 AGCTTTTTCGGGCAGCATGGAAATCATTTGAGGTCTCC 1995
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RESULT 5

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US-10-094-749-673
; Sequence 673, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 673
; LENGTH: 2102
; TYPE: DNA
; ORGANISM: Homo sapiens
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US-10-094-749-673
Alignment Scores:
Pred. No.: 4,77e-251 Length: 2102
Score: 2606.00 Matches: 516
Percent Similarity: 90.21% Conservative: 0
Best Local Similarity: 90.21% Mismatches: 1
Query Match: 97.68% Indels: 56
DB: 17 Gaps: 1

US-09-964-277-21 (1-517) x US-10-094-749-673 (1-2102)
QY 1 MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTyrValAsnTrpArgArg 20
Db 336 ATGTTGGCTCTCTCTCTTTCAGACTGTTTTTCTCACTGTACTTCTGGGTAACTGGAGAGA 395
QY 21 AlaSerThrLeuPheThrCysLeuGln----- 29
Db 396 GCTTCAACTCTGTTCACTGCTTGCA-GGTGGGTTTGTGTGAGTTCTCTCTGTTGTTTCCCT 454
QY 29 ----- 29
Db 455 GGCCTCTGTGAAGAAATCCACTCTAGTCCCTACCTGCATTTCTCAGCCTTGCTTACCT 514
QY 29 ----- 29
Db 515 GTTCCCAACATTTGGGCCAACCCCTAAATCTTCTCCCAATCTTTATCTTGGCTGCCAGGAGAT 574
QY 30 -----GluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsn 45
Db 575 GTCTCTCAACAGGAGCTGATGCAGCAGATGGGATTGGTTATGTGTTAAATGCCAGCAAT 634
QY 46 ThrCysProLysProAspPheIleProGluSerHisPheLeuArgValProValAsnAsp 65
Db 635 ACCTGTCAAAAGCCTGACTTTATCCCGAGTCTCATTTTCTCGCGTGTGCCTGTGAATGAC 694
QY 66 SerPheCysGluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAla 85
Db 695 AGCTTTTGTGAGAAATTTTGGCGTGGTTGGACAAATCAGTAGATTTTCATTGAGANAGCA 754
QY 86 LysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr 105
Db 755 AAAGCCTCCAATGGATGTGTTCTAGTGCACCTGTTTAGTGGGATCTCCCGCTCCGCCACC 814
QY 106 IleAlaIleAlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPhe 125
Db 815 ATCGCTATCGCTACATCATGAAGAGGATGACATGTCTTTTAGATGAAGCTTACAGATTT 874
QY 126 VallysGluLysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAsp 145
Db 875 GTGAAGAAAAAAGACCTACTATATCTCCAACCTTCAATTTTCTGGGCCAACTCTCTGGAC 934
QY 146 TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeu 165
Db 935 TATGAGAAGAAGATTAAGAACCAGACTGGACATCAGGGCCAAAGAGCAAACTCAAGCTG 994
QY 166 LeuHisLeuGluLysProAsnGluProValProAlaValSerGluGlyGlnLysSer 185
Db 995 CTGCACCTGGAGAAGCCAAATGAACCTGTCCCTGTCTGTCTCAGAGGGTGGACAGAAAAAGC 1054
QY 186 GluThrProLeuSerProProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArg 205
Db 1055 GAGACGCCCTCAGTGCACCCCTGTGCCACTCTGTCTACTCTCAGAGCAGCAGGACAAAGG 1114
QY 206 ProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAsp 225
Db 1115 CCGGTGCATCCCGCAGCGTCCCGAGCGTCCCGAGCGTGCAGCGCTCGCTGTTAGAGGAC 1174
QY 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
Db 1175 AGCCCGCTGGTACAGGCGCTCAGTGGGCTCAGCTCCGAGCAGCAGCTGGAAGACAGC 1234
QY 246 AsnLysLeuLysArgSerPheSerLeuAspIleLysSerValSerTyrSerAlaSerMet 265
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Db 1235 AATAAGCTCAAGCGTTCCTCTCTGGATATCAAAATCAGTTTCATATTCAGCCAGCATG 1294
Qy 266 AlaAlaSerLeuHisGlyPheSerSerGluAspAlaLeuGluTyrTyrIysProSer 285
Db 1295 GCAGCATCTTACATGGCTTCTCTCATCAGAAGATGCTTTGGAAATACACAACTTCC 1354
Qy 286 ThrThrLeuAspGlyThrAsnIysLeuCysGlnPheSerProValGlnGlnLeuSerGlu 305
Db 1355 ACTACTCTGGATGGGACCAACAGCTATGCCAGTTCTCCCTGTTTCAGGAATATCGGAG 1414
Qy 306 GlnThrProGluThrSerProAspIysGluGluAlaSerIleProIysIysLeuGlnThr 325
Db 1415 CAGACTCCCGAAACCAAGTCTCTGATAGGAGGAAGCCAGCATCCCAAGAAGCTGCAGACT 1474
Qy 326 AlaArgProSerAspSerGlnSerIysArgLeuHisSerValArgThrSerSerGly 345
Db 1475 GCCAGCCTTCAGACGCCAGACAGCAAGATTCATTCGGTCAGAACCCAGCAGTGGC 1534
Qy 346 ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAspAsnTyr 365
Db 1535 ACCGCCAGAGTCCCTTTTATCTCCACTGCATCGAAGTGGGAGCGTGGAGGACAATTAC 1594
Qy 366 HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrIysSerAlaGly 385
Db 1595 CACACCAGCTTCTCTTTCGGCCTTTCACACGACGACGACCTCACGAAGTCTGCTGGC 1654
Qy 386 LeuGlyLeuIysGlyTyrHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
Db 1655 CTGGGCTTTAAGGGCTGGGCACCTCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTG 1714
Qy 406 ThrSerSerTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
Db 1715 ACCAGCAGTGGTATTTTGGCCACAGAGTCTCACACTTCTACTCTGCCTCAGCCATCTAC 1774
Qy 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln 445
Db 1775 CGAGGCAGTGCCAGTTACTCTGCCTACAGCTGCAGCCAGCTGCCACCTTGGCGAGACCAA 1834
Qy 446 ValTyrSerValArgArgGlnIysProSerAspArgAlaAspSerArgSerTyr 465
Db 1835 GTCTATCTGTGCGAGCGGCGAGAACCAAGTGCAGAGCTGACTCGCGCGGAGCTGG 1894
Qy 466 HisGluGluSerProPheGluIysGlnPheIysArgSerCysGlnMetGluPheGly 485
Db 1895 CATGAACAGAGGCCCTTTGAAAAGCAGTTTAAACGACAGCTGCCAATGGAAATTGGA 1954
Qy 486 GluSerIleMetSerGluAsnArgSerArgGluGluLeuGlyIysValGlySerGlnSer 505
Db 1955 GAGAGCATCATGTTCAGAGAACAGGTACCGGAAGAGCTGGGAAAGTGGGAGTGCAGTCT 2014
Qy 506 SerPheSerGlySerMetGluIleIleGluValSer 517
Db 2015 AGCTTTTCGGCAGCATGGAAATCATTTAGGTCTCC 2050
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RESULT 6

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US-10-168-506-2
; Sequence 2, Application US/10168506
; Publication No. US20040053229A1
; GENERAL INFORMATION:
; APPLICANT: FLOWMAN, GREGORY D.
; APPLICANT: MARTINEZ, RICARDO
; APPLICANT: WHYTE, DAVID
; APPLICANT: MANNING, GERARD
; APPLICANT: SUDARSANAM, SUCHA
; APPLICANT: HILL, RON
; APPLICANT: FLANAGAN, PETER
; TITLE OF INVENTION: MAMMALIAN PROTEIN PHOSPHATASES
; FILE REFERENCE: 038602/1351
; CURRENT APPLICATION NUMBER: US/10/168,506
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: PCT/US00/34736
; PRIOR FILING DATE: 2000-12-21
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; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 2732
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-168-506-2

Alignment Scores:
Pred. No.: 7e-251 Length: 2732
Score: 2606.00 Matches: 516
Percent Similarity: 90.21% Conservative: 0
Best Local Similarity: 90.21% Mismatches: 1
Query Match: 97.68% Indels: 56
DB: 18 Gaps: 1

US-09-964-277-21 (1-517) x US-10-168-506-2 (1-2732)

Qy 1 MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTyrValAsnTyrArgArg 20
Db 818 ATGTTGCTCTCTCTCTTTCAGACTGTTTCTCAGCTGTACTTCTGGGTAACCTGGGAAGA 877
Qy 21 AlaSerThrLeuPheThrCysLeuGln----- 29
Db 878 GCTTCACACTCTGTTCACTGCTTGCA-CGTGGGTTTGTGAGTTCTCTCGTTGTTTCCCT 936
Qy 29 ----- 29
Db 937 GGCCTCTGTGAAGGAATAATCCACTCTAGTCCCTACCTGCATTTCTCAGCCTTGCTTACCT 996
Qy 29 ----- 29
Db 997 GTTGCCAACTTTGGGCCCAACCCGAATCTTCCCAATCTTTATCTTTGGTCCGAGAGAT 1056
Qy 30 -----GluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsn 45
Db 1057 GTCTCTCAACAGGAGCTGATGACGACGAATGGGATGGTATGTTATGTTAAATGCCAGCAAT 1116
Qy 46 ThrCysProIysProAspPheIleProGluSerHisPheLeuArgValProValAsnAsp 65
Db 1117 ACCTGTCCAAAGCCTGACTTTATATCCCGAGTCTCATTTCTCGGTGCTGCTGAATGAC 1176
Qy 66 SerPheCysGluIysIleLeuProThrLeuAspIysSerValAspPheIleGluIysAla 85
Db 1177 AGCTTTTGTGAAAAATTTTCCCGGTGGTGGCAAAATCAGTAGATTTTCATTGAGAAGCA 1236
Qy 86 IysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr 105
Db 1237 AAAGCTTCAATGGATGTGTTCTAGTGCACTGTTTAGTGGGATCTCCGCTCCGCCACC 1296
Qy 106 IleAlaIleAlaTyrIleMetIysArgMetAspMetSerLeuAspGluAlaTyrArgPhe 125
Db 1297 ATCGTATCGCTACATCATGAAGAGGATGGACATGTCTTTAGATGAAGCTTACAGATTT 1356
Qy 126 ValIysGluIysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAsp 145
Db 1357 GTGAAAGAAAAAGACCTACTATATCTCAAACTTCAATTTTCTGGGCCAACCTCTCTGGAC 1416
Qy 146 TyrGluIysIysIleIysAsnGlnThrGlyAlaSerGlyProIysSerIysLeuIysLeu 165
Db 1417 TATGAGAAGAGATTAAAGAACCACTGGAGATCAGGGCCCAAGAGCAAACTCAAGCTG 1476
Qy 166 LeuHisLeuGluIysProAsnGluProValProAlaValSerGluGlyGlnIysSer 185
Db 1477 CTGCACCTTGGAGAGCCAAATGAACCTGTCTCTGTCTCAGAGGTTGGACAGAAAAAGC 1536
Qy 186 GluThrProLeuSerProCysAlaAspSerAlaThrSerGluAlaIleGlyGlnArg 205
Db 1537 GAGACGCCCTCAGTCCACCTGTGCCACTCTGTACTCTCAGAGGCGACAGCAAAAGG 1596
Qy 206 ProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAsp 225
Db 1597 CCCGTGTCATCCCGCCAGCGTGCACCGTGCAGCGTGCCTGCTGTTAGAGGAC 1656
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QY	226	SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer	245
DB	1657	AGCCCGCTGGTACAGGCGCTCAGTGGGCTGCACCTGTCCGACAGCAGGCTGGAAGACAGC	1716
QY	246	AsnLysLeuLysArgSerPheSerLeuAspLleLysSerValSerTyrSerAlaSerMet	265
DB	1717	AATAAGCTCAAGCGTCTCCTCTCTGGATATCAAAATCAGTTTCATATTCAGCGCAGCATG	1776
QY	266	AlaAlaSerLeuHisGlyPheSerSerGluAspAlaLeuGluTyrTyrLysProSer	285
DB	1777	GCAGCATCTTACATGGCTTCTCCTCATCAGAGATGCTTTGGAACTACTACAAACCTTCC	1836
QY	286	ThrThrLeuAspGlyThrAsnLysLeuCysGlnPheSerProValGlnGluLeuSerGlu	305
DB	1837	ACTACTCTGGATGGGACCAACAAGCTATGCGAGTTCTCCCTGTTCAGGAACATATCGGAG	1896
QY	306	GlnThrProGluThrSerProAspLysGluGluAlaSerIleProLysLysLeuGlnThr	325
DB	1897	CAGACTCCCGAACCACTGCTGTATAGGAGGAGGCCAGCATCCCCAAAGAAGCTGCAGACT	1956
QY	326	AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerSerGly	345
DB	1957	GCCAGGCTTCAGACAGCCAGCAAGGATTGCATTCCGTCAGAACCCAGCAGCAGTGGC	2016
QY	346	ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAspAsnTyr	365
DB	2017	ACCGCCACAGAGTCCCTTTTATCTCCACTGTCATCGAAGTGGAGCGGTGGAGGACAAATTAC	2076
QY	366	HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly	385
DB	2077	CACACCAGCTTCCCTTTTCGGCTTTCACACGACGAGCAGCACCTTCACGAAGTCTGCTGGC	2136
QY	386	LeuGlyLeuLysGlyTyrPHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu	405
DB	2137	CTGGGCTTTAAGGCTGGCACTCGGATATCTTTGGCCCCCAGACCTCTACCCCTTCCCTG	2196
QY	406	ThrSerSerTyrTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr	425
DB	2197	ACCAGCAGCTGGTATTTTGGCACAGAGTCTTCACACTTCTACTCTGCTCAGCCATCTAC	2256
QY	426	GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln	445
DB	2257	GGAGCAGTGCAGTTACTCTGCCATCAGCTGACGACGAGCTGCCCATCTTGGGAGACCAA	2316
QY	446	ValTyrSerValArgArgGlnLysProSerAspArgAlaAspSerArgArgSerTyr	465
DB	2317	GTCTATTCTGTGCGCAGCGCGCAGAAGCAAAGTCACAGAGCTGACTCGCGCGGAGCTGG	2376
QY	466	HisGluGluSerProPheGluLysGlnPheLysArgArgSerCysGlnMetGluPheGly	485
DB	2377	CATGAAGAGAGCCCCCTTTTGAAGAAGCAGTTTAAACGCAAGAGCTGCCAAATGGAAATTGGGA	2436
QY	486	GluSerIleMetSerGluAsnArgSerArgGluLeuGluLysValGlySerGlnSer	505
DB	2437	CAGAGCATCATGTCAGAGAACAGGTCACGGGAGAGGCTGGGGAAAGTGGGCGAGTCACTCT	2496
QY	506	SerPheSerGlySerMetGluIleGluValSer	517
DB	2497	AGCTTTTTCGGGCAGCATGGAATCATTTAGGCTCTCC	2532

RESULT 7

US-10-838-181-2	
US-10-838-181-2	
Sequence 2, Application US/10838181	
Publication No. US20050084877A1	
GENERAL INFORMATION:	
APPLICANT: PLOWMAN, GREGORY D.	
APPLICANT: MARTINEZ, RICARDO	
APPLICANT: WHYTE, DAVID	
APPLICANT: MANNING, GERARD	
APPLICANT: SUDARSANAM, SUCHA	
APPLICANT: HILL, RON	
APPLICANT: FLANAGAN, PETER	
126 ValLysGluLysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAsp	145
1357 GTGAAGAAGAAAAGACCTCTATATCTCAAACTTCAATTTCTGGGCCCACTCTGGAC	1416
146 TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeu	165
1417 TATGAGAAGAGATTAAACACAGCTGAGCATCAGGCGCCAAAGACCAACTCAAGCTG	1476
166 LeuHisLeuGluLysProAsnGluProValProAlaValSerGluGlyGlyGlnLysSer	185
1477 CTGCACCTCGGAGAACCCAAATGAACCTGCTCCCTGCTCTCAGAGGGGTGGACAGAAAGC	1536

QY	186	GluThrProLeuSerProProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArg	205
DB	1537	GAGACGCCCTCAGTCCACCCTGTGGCGACTCTGCTACCTCAGAGGCAGCAGACAAAGG	1596
QY	206	ProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAsp	225
DB	1597	CCCGTGATCCCGCCAGCGGCCAGCGTGCCAGCGTGACCGCTGCCTGTTTAGAGGAC	1656
QY	226	SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer	245
DB	1657	AGCCCGCTGGTACAGGGCTCAGTGGGTGCACCTGTCCGACACAGCTGGAAGACAGC	1716
QY	246	AsnLysLeuLysArgSerPheSerLeuAspIleLysSerValSerTyrSerAlaSerMet	265
DB	1717	AATAAGCTCAAGCGTTCCTTCTCTCTGGATATCAAAATCAGTTTCATATTCAGCCAGCATG	1776
QY	266	AlaAlaSerLeuHisGlyPheSerSerSerGluAspAlaLeuGluTyrTyrLysProSer	285
DB	1777	GCAGCACTCTTACATGGCTTCTCTCTCATCAGAGATGCTTTTGAATACTACAACCTTCC	1836
QY	286	ThrThrLeuAspGlyThrAsnLysLeuCysGlnPheSerProValGlnGluLeuSerGlu	305
DB	1837	ACTACTCTGATGGGACCAACAGCTATGCCAGTTCTCCCTGTTCAGGAACATATCGGAG	1896
QY	306	GlnThrProGluThrSerProAspLysGluGluAlaSerIleProLysLysLeuGlnThr	325
DB	1897	CAGACTCCCGAAACCCAGTCTCTGATAGGAGGAAGCCAGCATCCCAAGAAAGCTGCAGACT	1956
QY	326	AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerSerGly	345
DB	1957	GCCAGGCTTTTCAGACACCGAGCAACGCAATGCAATTCGGTCAAGACCGAGCAGCATGGC	2016
QY	346	ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAspAsnTyr	365
DB	2017	ACGCCCCAGAGTCCCTTTTATCTCCACTGCATCGAAGTGGAGCGTGGAGGACAAATTAC	2076
QY	366	HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly	385
DB	2077	CACACCAAGTTCCTTTTCGGCTTTCCACCAGCCAGCAGCAGCACTCAGCAAGTCTGCTGGC	2136
QY	386	LeuGlyLeuLysGlyTyrHisSerAspIleuAlaProGlnThrSerThrProSerLeu	405
DB	2137	CTGGGCTTTAAGGCTGGCATCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTG	2196
QY	406	ThrSerSerTyrPyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr	425
DB	2197	ACCGCAGCTGGTATTTTGGCAGAGTCTTCACACTTCTACTCTGCTCAGCCATCTAC	2256
QY	426	GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln	445
DB	2257	GGAGCAGTGCCAGTTACTCTGCTCCTCAGCTGCAGCCAGCTGCCCATCTTGGCGAGACCA	2316
QY	446	ValTyrSerValArgArgArgGlnLysProSerAspArgAlaAspSerArgArgSerTyr	465
DB	2317	GTCTATTCTGTGCGCAGCGCGCAGAGCAAGTGCAGAGCTGACTCGCGCGAGGCTGG	2376
QY	466	HisGluGluSerProPheGluLysGlnPheLysArgArgSerCysGlnMetGluPheGly	485
DB	2377	CATGAAGAGAGCCCTTTTGAANAGCGTTTAAACGCAGAGCTGCCAAATGCAATTTGGA	2436
QY	486	GluSerIleMetSerGluAsnArgSerArgGluLeuGlyLysValGlySerGlnSer	505
DB	2437	GAGAGCATCATGTACAGAAACAGGTTCACGGGAGAGCTGGGGAAATGGGCGAGTCAGTCT	2496
QY	506	SerPheSerGlySerMetGluIleLeuValSer	517
DB	2497	AGCTTTTTCGGGAGCATGGAATCATTTGAGTCTCC	2532

RESULT 8

RESULTS 8
IIS-10-296-115-520

US-10-296-115-520
: Sequence 520. Application US/10296115

Publication No. US20040053248A1

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; GENERAL INFORMATION:
; APPLICANT: Hyseq Inc
; TITLE OF INVENTION: No. US20040053248a1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 784PCT
; CURRENT APPLICATION NUMBER: US/10/296.115
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US09/552,317
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 1478
; SEQ. ID. NO 520
; LENGTH: 2966
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(2966)
; OTHER INFORMATION: n = a,t,c or g
; US-10-296-115-520

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US-09-964-277-21 (1-517) x US-10-296-115-520 (1-2966)

Qy	1	MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArg	20
Db	303	ATGTTGGCTCTCTCTTCAGACATGTTTTCTCACTGTA	362
Qy	21	AlaSerThrLeuPheThrCysLeuGln	29
Db	363	GCITCAAACTCTGTTCACTGCTGSCA-GGTGGGTTGCTGAGTCTCTCGTTGTTTCCCT	421
Qy	29	-----	29
Db	422	GGCCTCTGTGAAGGAAATCCACTCTAGTCCCTACCTGCATTTCTCAGCCCTTGCTTACCT	481
Qy	29	-----	29
Db	482	GTTCGCCAACATGGGCCAAACCCGAATCTTCCCAATCTTTATCTTGGCTGCCAGCGAGAT	541
Qy	30	-----GluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsn	45
Db	542	GTCCTCAACAAGGAGCTGATGCAGCAGAAATGGGATTTGGTTATGTGTTAAATGCCAGCAAT	601
Qy	46	ThrCysProIysProAspPheIleProGluSerHisPheLeuAtcValProValAsnAsp	65
Db	602	ACCTGTCCAAAGCCTGACTTATCCCGAGTCTATTTCTTCGGTGTGCTGTGAATGAC	661
Qy	66	SerPheCysGluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAla	85
Db	662	AGCTTTTGTGAGAAAAATTTGCCCGTGTGGACAAATCAGTAGATTTCATTGAGAAAGCA	721
Qy	86	LysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr	105
Db	722	AAAGCCTCCAAATGATGTGTTCTAGTGCACTGTTTAGCTGGAGTCTCCGCTCCGCCACC	781
Qy	106	IleAlaIleAlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPhe	125
Db	782	ATCGCTATCGCTACATCATGAAGAGGATGGACATGTCTTTAGATGAAGCTTACAGATTT	841
Qy	126	VallysGluLysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAsp	145
Db	842	CTGAAGAGAAAAGAAGACCTTACTATCTCCAAACTTCAATTTTCTGGGCCAATCCTCGTGAC	901
Qy	146	TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeu	165

Db 902 TATGAGAAAGATTAAAGACAGACTGGAGCATCAGGGCCCAAGAGCAAACTCAAGCTG 961
Qy 166 LeuHisLeuGluYsProAsnGluProValProAlaValSerGluGlyGlnIysSer 185
| | | | |
Db 962 CTGACCTGGAGAACCAAACTGAACCTGTCTCCCTGTGTCTCAGAGGGTGGACAGAAAAAGC 1021
Qy 186 GluThrProLeuSerProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArg 205
| | | | |
Db 1022 GAGAGCCCTCAGTCCACCTGTGCCACTCTGTCTACTCAGAGGCAGCAGGACAAAGG 1081
Qy 206 ProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAsp 225
| | | | |
Db 1082 CCCGTGCATCCGCCAGCGTCCAGCGTGCCAGCGTGCAGCCGTCTGCTGTAGAGGAC 1141
Qy 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
| | | | |
Db 1142 AGCCCGCTGGTACAGCGCTCAGTGGGTGCACCTGTCCGCAGACAGGCTGGAGACAGC 1201
Qy 246 AsnLysLeuLysArgSerPheSerLeuAspIleLysSerValSerTyrSerAlaSerMet 265
| | | | |
Db 1202 AATAAGCTCAAGCGTTCTCTCTGGATATCAAAATCAGTTTCATATTCAGCCAGCATG 1261
Qy 266 AlaAlaSerLeuHisGlyPheSerSerGluAspAlaLeuGluTyrTyrLysProSer 285
| | | | |
Db 1262 GCAGCATCTTACATGGCTTCTCTCATCAGAAAGATGCTTTGGAAATATCAAACTTCC 1321
Qy 286 ThrThrLeuAspGlyThrAsnLysLeuCysGlnPheSerProValGlnGluLeuSerGlu 305
| | | | |
Db 1322 ACTACTCTGGATGGGACCAACAAAGCTATGCTCAGATTCTCCCTGTTCAGGAACATATCGGAG 1381
Qy 306 GlnThrProGluThrSerProAspLysGluGluAlaSerIleProLysLysLeuGlnThr 325
| | | | |
Db 1382 CAGACTCCGAAACCACTCTCATTAAGGAGGAAGCCAGCATCCCAAGAAAGCTGCAGACC 1441
Qy 326 AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerGly 345
| | | | |
Db 1442 GCCAGGCTTCAGACGCCAGCAGCAGCGATTGCAATTCGGTCAGAACCCAGCAGTAGTGGC 1501
Qy 346 ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAspAsnTyr 365
| | | | |
Db 1502 ACCGCCACAGGTTCCTTTATCTCCACTGCATCGAAGTGGGAGCGTGGAGGACAATTAC 1561
Qy 366 HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly 385
| | | | |
Db 1562 CACACGAGCTTCTTTTCGGCTTTTCCACAGCCAGCAGCAGCTCACGAAGTCTGCTGGC 1621
Qy 386 LeuGlyLeuLysGlyTyrHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
| | | | |
Db 1622 CTGGGCTTTAAGGCTGGCACTCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTG 1681
Qy 406 ThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
| | | | |
Db 1682 ACCAGCAGCTGTTATTTTCCACAGAGTCTCTCACACTTCTACTCTGCTCAGCCATCTAC 1741
Qy 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln 445
| | | | |
Db 1742 GGAGGCAGTGCCAGTTACTCTGCCTACAGCTCAGCCAGCTGCCACTTGGCGGAGACCAA 1801
Qy 446 ValTyrSerValArgArgArgGlnLysProSerAspAtqAlaAspSerArgArgSerTrp 465
| | | | |
Db 1802 GTCTATTCTGTGGCAGGCGGAGAGCCAGCAAGTGAACAGCTGATCTCGCGCGGAGCTGG 1861
Qy 466 HisGluGluSerProPheGluLysGlnPheLysArgArgSerCysGlnMetGluPheGly 485
| | | | |
Db 1862 CATGAAGAGAGCCCCCTTTGAAAGACGATTTAAACGCAGAAAGCTGCCAAATGAAATTTGA 1921
Qy 486 GluSerIleMetSerGlnAsnArgSerArgGluGluLeuGlyValGlySerGlnSer 505
| | | | |
Db 1922 GAGAGCATATGTTCAGAGAACAGGTACGGGAAAGAGCTGGGAAAGTGGGCAAGTCAAGTCT 1981
Qy 506 SerPheSerGlySerMetGluIleLeuGluValSer 517
| | | | |
Db 1982 AGCTTTTCGGGAGCATGGAAATCATTGAGGCTCC 2017

RESULT 9

US-10-257-026-1
; Sequence 1, Application US/10257026
; Publication No. US20040086859A1
; GENERAL INFORMATION:
; APPLICANT: Merck Patent GmbH
; TITLE OF INVENTION: New dual specificity phosphatase
; FILE REFERENCE: DUSP10KWS
; CURRENT APPLICATION NUMBER: US/10/257,026
; CURRENT FILING DATE: 2003-11-07
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 3059
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (127)..(2121)
US-10-257-026-1

Alignment Scores:

Pred. No.: 8.26e-251 Length: 3059
Matches: 516
Score: 2606.00
Percent Similarity: 90.21% Conservative: 0
Best Local Similarity: 90.21% Mismatches: 1
Query Match: 97.68% Indels: 56
DB: 18 Gaps: 1

US-09-964-277-21 (1-517) x US-10-257-026-1 (1-3059)

Qy 1 MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArgArg 20
| | | | |
Db 407 ATGTTGGCTCTCTCTCTCAGACTGTTTCTCAGCTACTTCTGGTAACTGGAGAAAG 466
Qy 21 AlaSerThrLeuPheThrCysLeuGln----- 29
| | | | |
Db 467 GCTTCAACTCTGTTCACCTGCTTGCA-GGTGGGTTTGTGTGAGTTCTCTCGTTGTTCCCT 525
Qy 29 ----- 29
Db 526 GGCTCTGTGAAGGAAATCCACTCTAGTCCCTACCTGCATTTCTCAGCCTTGCTTACCT 585
Qy 29 ----- 29
Db 586 GTTGCAACATTGGGCCAACCCGAATCTTCCCAATCTTTATCTTTGGCTGCCAGCGAGAT 645
Qy 30 -----GluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsn 45
| | | | |
Db 646 GTCCTCAACAAGGAGCTGATCAGCAGAAATGGGATTTGTTATGTGTTAAATGCCAGCAAT 705
Qy 46 ThrCysProLysProAspPheIleProGluSerHisPheLeuArgValProValAsnAsp 65
| | | | |
Db 706 ACCTGTCCAAAGCCTGACTTTATCCCCGAGTCTCATTTCTCGCGTGTGCTGTGAATGAC 765
Qy 66 SerPheCysGluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAla 85
| | | | |
Db 766 AGCTTTTGTGAGAAAAATTTTCCGTGGTGGACAAATCAGTAGATTTTCATTGAGAAAGCA 825
Qy 86 LysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr 105
| | | | |
Db 826 AAAGCCTCCAAAGATGTGTTCTAGTCACCTGTTTAGCTGGGATCTCCGCTCCGCCACC 885
Qy 106 IleAlaIleAlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPhe 125
| | | | |
Db 886 ATCGCTATCGCTACATCATGAGAGGATGGACATGTTCTTTAGATGAAGTTACAGATTT 945
Qy 126 VallysGluLysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAsp 145
| | | | |
Db 946 GTGAAGAAAAAAGACCTTACTATATCTCCAAACTTCAATTTTCTGGGCAACTCTCTGGAC 1005
Qy 146 TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLeu 165
| | | | |

Db 1006 TATGAGAGAGATTAAAGAACAGACTGGAGCATCAGGGCCAAAGAGCAAACTCAAGCTG 1065
QY 166 LeuHisLeuGluYpProAsnGluProValProAlaValSerGluGlyGlnLysSer 185
Db 1066 CTGCACCTGGAGAAGCAATGAACCTGTCCCTGTCTCAGAGGGTGGAGAGAAAGC 1125
QY 186 GluThrProLeuSerProProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArg 205
Db 1126 GAGAGCCCTCAGTCCACCTGTGCCGACTCTGTACTCTCAGAGGCAGCAGACAAAGG 1185
QY 206 ProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAsp 225
Db 1186 CCGTGCATCCCGCCAGCGTCCAGCGTCCAGCGTCCAGCGTCCAGCGTCTGTGTAGAGGAC 1245
QY 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
Db 1246 AGCCCGCTGGTACAGCGCTCAGTGGGTGCACCTGTCCGACAGAGCGCTGGAACACAGC 1305
QY 246 AsnLysLeuLysArgSerPheSerLeuAspIleLysSerValSerTyrSerAlaSerMet 265
Db 1306 AATAAGCTCAGCGTTCCTTCTCTCTGGATATCAATCAGTTTCATATTCAGCCAGCATG 1365
QY 266 AlaAlaSerLeuHisGlyPheSerSerGluAspAlaLeuGluTyrTyrLysProSer 285
Db 1366 GCAGCATCCTTACATGGCTTCTCTCATCAGAAGATGCTTTGGATATCTACAACTTCC 1425
QY 286 ThrThrLeuAspGlyThrAsnLysLeuCysGlnPheSerProValGlnLysSerGlu 305
Db 1426 ACTACTCTGGATGGGACCAACAGCTATGCCAGTTCTCCCTGTTCAGGAACATATCGGAG 1485
QY 306 GlnThrProGluThrSerProAspLysGluAlaSerIleProLysLysLeuGlnThr 325
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QY 326 AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerGly 345
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QY 366 HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly 385
Db 1666 CACACAGCTTCTTTTTCGGCCTTTCACACAGCAGCAGCAGCATCTCAGAAAGTCTGCTGC 1725
QY 386 LeuGlyLeuLysGlyThrHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
Db 1726 CTGGGCTTAAAGGCTGGGACTCGGATATCTTGGCCCCCAGACCTTACCCCTTCCCTG 1785
QY 406 ThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
Db 1786 ACCAGCAGCTGGTATTTTGGCCAGAGTCTCACACTTCTACTCTGCCTCAGCCATCTAC 1845
QY 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln 445
Db 1846 GGAGGAGTGCCTTACTCTGCCTACAGCTGAGCCAGCGTGCCTTCTACTCTGCCTCAGCCATCTAC 1905
QY 446 ValTyrSerValArgArgGlnLysProSerAspAlaAspSerArgArgSerTrp 465
Db 1906 GTCTATTCTGTGGCAGCGCGAGAGCCAGTGAAGTACAGACTGACTCGCGCGGAGCTGG 1965
QY 466 HisGluGluSerProPheGluLysGlnPheLysArgArgSerCysGlnMetGluPheGly 485
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QY 486 GluSerIleMetSerGluAsnArgSerArgGluLeuGlyLysValGlySerGlnSer 505
Db 2026 GAGAGCATCATGTACAGAAACAGGTCAACGGAAGAGCTGGGGAAGAGTGGGCGAGTCACTCT 2085
QY 506 SerPheSerGlySerMetGluIleLeuGluValSer 517

Db 2086 AGCTTTTGGGCAGCATGGAAATCATTTAGAGTCTCC 2121
RESULT 10
US-09-964-277-1
; Sequence 1, Application US/09964277
; Patent No. US2002037170A1
; GENERAL INFORMATION:
; APPLICANT: Luche, Ralf M.
; APPLICANT: Wei, Bo
; TITLE OF INVENTION: DSP-16 DUAL-SPECIFICITY PHOSPHATASE
; FILE REFERENCE: 200125,434
; CURRENT APPLICATION NUMBER: US/09/964,277
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 3496
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-277-1
Alignment Scores:
Pred. No.: 1e-250 Length: 3496
Score: 2606.00 Matches: 516
Percent Similarity: 90.21% Conservative: 0
Best Local Similarity: 90.21% Mismatches: 1
Query Match: 97.68% Indels: 56
Gaps: 1
DB: 1
US-09-964-277-21 (1-517) x US-09-964-277-1 (1-3496)
QY 1 MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArgArg 20
Db 842 ATGTGCTCTCTCTCTCTCAGACTGTTTCTCAGCTGTTCTCTGGTAAACTGGAGAGA 901
QY 21 AlaSerThrLeuPheThrCysLeuGln----- 29
Db 902 GCTTCAACTCTGTTCCACCTGCTTGCA-GGTGGGTTTGTGTGAGTTCTCTCGTTGTTCCCT 960
QY 29 ----- 29
Db 961 GGCCTCTGTGAAGGAAATCCACTCTAGTCCCTACCTGCATTTCTCAGCCTTGCTTACCT 1020
QY 29 ----- 29
Db 1021 GTTGCCAACTTTGGGCCAACCGAATCTTCCCAATCTTTATCTTGGCTGCCAGCGAGAT 1080
QY 30 -----GluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsn 45
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Db 1141 ACCTGTCAAAGCCGTGACTTTATCCCGAGTCTCATTTCTCGCTGTGCTGTGAATGAC 1200
QY 66 SerPheCysGluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAla 85
Db 1201 AGCTTTTGTGAGAAATTTGCGGTGGTGGACAAATCAGTAGATTTTCATTGAGAAAGCA 1260
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Db 1261 AAAGCCTCCAAATGGATGTGTTCTAGTGCACTGTTTAGTGGGATCTCCCGCTCCGCCACC 1320
QY 106 IleAlaIleAlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPhe 125
Db 1321 ATCGCTATCGCTTACATCATGAAAGGATGGACATGTCTTTTAGATGAAGCTTACAGATT 1380
QY 126 ValLysGluLysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAsp 145
Db 1381 GTGAAGAGAAAGAAAGCTTACTATATCTCCAACTTCAATTTCTGGGCCAATCTCTGGAC 1440
QY 146 TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeu 165


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Db 1501 CTGACCTGGAGAACCAAAATGAACCTGTCTCCCTGTGTCTCAGAGGGTGGACAGAAAAGC 1560
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Db 1561 GAGACGCCCTCAGTCCACCTGTGCCGACTCTGTACTTCAGAGGCAGAGCAAAAGG 1620
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Db 1621 CCCGTGCATCCCGCCAGCGTGCCAGCGTGCCAGCGTGCAGCCGTCTGCTGTAGAGGAC 1680
Qy 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
Db 1681 AGCCCGCTGGTACAGCGCTCAGTGGGTGCACCTGTCCGACAGACAGGCTGGAAGACAGC 1740
Qy 246 AsnLysLeuLysArgSerPheSerLeuAspLysSerValSerValSerAlaSerMet 265
Db 1741 AATAAGCTCAAGCGTTCCTCTCTGGATATCAAAATCAGTTTCATATTCAGCCAGCATG 1800
Qy 266 AlaAlaSerLeuHisGlyPheSerSerSerGluAspAlaLeuGluTyrTyrLysProSer 285
Db 1801 GCAGCATCTTACATGGCTTCTCTCTCATCAGAAGATGCTTTGGAAATACACAACTTCC 1860
Qy 286 ThrThrLeuAspGlyThrAsnLysLeuCysGlnPheSerProValGlnGluLeuSerGlu 305
Db 1861 ACTACTCTGATGGGACCAACAAAGTATGCTCCAGTTCCTCCCTGTTTCAGAACTATCGGAG 1920
Qy 306 GlnThrProGluThrSerProAspLysGluGluAlaSerIleProLysLysLeuGlnThr 325
Db 1921 CAGACTCCCGAAACCACTCTCATTAAGGAGGAAGCCAGCATCCCCAAGAAGCTGCAGACC 1980
Qy 326 AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerGly 345
Db 1981 GCCAGCCCTTCAGACAGCCAGAGCAAGCATGTCATTCGGTCAGAACCGAGCAGTGGC 2040
Qy 346 ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAspAsnTyr 365
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Qy 366 HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly 385
Db 2101 CACACCAGCTTCCTTTTCGGCCCTTTCCACCAGCCAGCAGCACCTCACGAAGTCTGCTGGC 2160
Qy 386 LeuGlyLeuLysGlyTrpHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
Db 2161 CTGGGCTTTAAGGCTGGGCACTCGGNATATCTTGGCCCCCAGACCTTACCCCTTCCCTG 2220
Qy 406 ThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
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Qy 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln 445
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Qy 486 GluSerIleMetSerGlnAsnArgSerArgGluGluLeuGlyLysValGlySerGlnSer 505
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RESULT 11

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US-10-370-715B-261
; Sequence 261, Application US/10370715B
; Publication No. US20040258678A1
; GENERAL INFORMATION:
; Patin Docket Preview
; APPLICANT: BODARY, SARAH C.
; APPLICANT: CLARK, HILLARY
; APPLICANT: BRISDELL, HUNTE
; APPLICANT: JACKMAN, JANET
; APPLICANT: SCHOENFELD, JILL R.
; APPLICANT: WILLIAMS, P. MICKEY
; APPLICANT: WOOD, WILLIAM I.
; APPLICANT: WU, THOMAS D.
; TITLE OF INVENTION: Compositions and Methods for the Treatment of Immune
; FILE REFERENCE: P1948R1-US
; CURRENT APPLICATION NUMBER: US/10/370,715B
; CURRENT FILING DATE: 2003-02-21
; NUMBER OF SEQ ID NOS: 742
; SEQ ID NO 261
; LENGTH: 3521
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-370-715B-261
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Alignment Scores:

Pred. No.:	1.01e-250	Length:	3521
Score:	2606.00	Matches:	516
Percent Similarity:	90.21%	Conservative:	0
Best Local Similarity:	90.21%	Mismatches:	1
Query Match:	97.68%	Indels:	56
DB:	20	Gaps:	1

US-09-964-277-21 (1-517) x US-10-370-715B-261 (1-3521)

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Db 904 GCTTCAACTGTTTCACCTGCTTGCA-GGTGGGTTTGTGAGTCTCTCGTTGTTCCCT 962
Qy 29 ----- 29
Db 963 GGCCTCTGTGAAGGAAATCCACTCTAGTCCCTACCTGCAATTTCTCAGCCTTGCTTACCT 1022
Qy 29 ----- 29
Db 1023 GTTGCCAACATTGGGCCAACCCGAATTTCTCCCAATCTTTATCTTGGCTGCCAGCAGAT 1082
Qy 30 -----GluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsn 45
Db 1083 GTCCTCAACAAGGAGCTGATCAGCAGAAATGGGATTGGTTATGTGTTAAATGCCAGCAAT 1142
Qy 46 ThrCysProLysProAspPheIleProGluSerHisPheLeuArgValProValAsnAsp 65
Db 1143 ACCTGTCCAAAGCCTGACTTTATCCCGAGTCTCATTTCTCCGTGCTGCTGTGAATGAC 1202
Qy 66 SerPheCysGluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAla 85
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Qy 86 LysAlaSerAsnGlyCysValLeuValHisCysValLeuAlaGlyIleSerArgSerAlaThr 105
Db 1263 AAAGCCTCCAATGGATGTTCTAGTCACCTGTTTAGCTGGGATCTCCGCTCCGCCACC 1322
Qy 106 IleAlaIleAlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPhe 125
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QY 126 VallysGluLysArgProThrIleSerProAenPheAsnPheLeuGlyGlnLeuLeuAsp 145
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QY 146 TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeu 165
DB 1443 TATGAGAGAGATTAAAGAACAGACTGGAGCATCAGGCGCCAAAGAGCAAACTCAAGCTG 1502
QY 166 LeuHisLeuGluLysProAsnGlnProValProAlaValSerGluGlyGlyGlnLysSer 185
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QY 186 GluThrProLeuSerProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArg 205
DB 1563 GAGAGCCCTCAGTCCACCTGTGCCGACTCTGTCTACCTCAGAGCGCAGCAGCAAAAGG 1622
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DB 1623 CCGGTGCATCCGCGCAGCGTCCGAGCGTCCGAGCGTGCAGCCGCTGCTGTGTAGAGGAC 1682
QY 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
DB 1683 AGCCCGCTGGTACAGCGCTCAGTGGCTGCACCTGTCCGACAGCGGTGGAGACAGC 1742
QY 246 AsnLysLeuLysArgSerPheSerLeuAspIleLysSerValSerTyrSerAlaSerMet 265
DB 1743 NATAGCTCAGCGTTCCTTCTCTGTGGATATCAATCAGTTTCATATTCAGCCAGCATG 1802
QY 266 AlaAlaSerLeuHisGlyPheSerSerSerGluAspAlaLeuGluTyrTyrLysProSer 285
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QY 286 ThrThrLeuAspGlyThrAsnLysLeuCysGlnPheSerProValGlnGluLeuSerGlu 305
DB 1863 ACTACTCTGGATGGGACCAACAGCTATCCAGTTCCTCCCTGTTCCAGGAATATCGGAG 1922
QY 306 GlnThrProGluThrSerProAspLysGluGluAlaSerIleProLysLysLeuGlnThr 325
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QY 446 ValTyrSerValArgArgGlnLysProSerAspArgAlaAspSerArgArgSerTrp 465
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QY 486 GluSerIleMetSerGluAsnArgSerArgGluLeuGlyLysValGlySerGlnSer 505

DB 2463 GAGAGCATCATGTCTCAGAGAACAGGTCTCGGGAAGAGCTGGGAAAGTGGCGAGTCAGTCT 2522
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RESULT 12
US-09-816-494-1
; Sequence 1, Application US/09816494
; Patent No. US20020034807A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel A.
; TITLE OF INVENTION: 38692 AND 21117, NOVEL DUAL SPECIFICITY
; TITLE OF INVENTION: PHOSPHATASE MOLECULES AND USES THEREFOR
; FILE REFERENCE: 10448-030002
; CURRENT APPLICATION NUMBER: US/09/816,494
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/191,858
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 3544
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (589) ... (2583)
US-09-816-494-1
Alignment Scores:
Pred. No.: 1,02e-250 Length: 3544
Score: 2606.00 Matches: 516
Percent Similarity: 90.21% Conservative: 0
Best Local Similarity: 90.21% Mismatches: 1
Query Match: 97.68% Indels: 56
DB: 9 Gaps: 1
US-09-964-277-21 (1-517) x US-09-816-494-1 (1-3544)
QY 1 MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArgArg 20
DB 869 ATGTGGCTCTCTCTCTCTTCAGACTGTTTCTCACTGTACTTCTGGGTAAACTGGAGAAGA 928
QY 21 AlaSerThrLeuPheThrCysLeuGln----- 29
DB 929 GCTTCAACTCTGTTCACTCTTGCA-GGTGGGTTTGTGAGTTCTCTCGTTGTTTCCCT 987
QY 29 ----- 29
DB 988 GGCCTCTGTGAAGAAATCCACTCTAGTCCCTACTGTCATTTCTCAGCCTTGTCTTACCT 1047
QY 29 ----- 29
DB 1048 GTTGCCAACTTGGGCCAACCCGAATCTTCCAAATCTTTATCTTGGTCCGAGGAGAT 1107
QY 30 -----GluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAen 45
DB 1108 GTTCTCAACAGAGAGCTGATGCAGAGATGGGATTTGTTATGTTTAAATGCCAGCAAT 1167
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DB 1168 ACTGTCCAAAGCCTGACTTTATCCCGAGTCTCTATTTCTCGGTGTGCTGTGAATGAC 1227
QY 66 SerPheCysGluLysIleLeuProTrpLeuAspLysSerValAspPheIleGlyLysAla 85
DB 1228 AGCTTTTGTGAGAAAAATTTTGGCGTGGTGGCAAAATCAGTAGATTTTCATTGAGAAGCA 1287
QY 86 LysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr 105
DB 1288 AAAGCCTCCAATGGATGTGTCTTAGTGCACTGTTTAGTGGGATCTTCCCGCTCCGCCACC 1347

QY 106 IleAlaIleAlaTyrIleMetIysArgMetSerLeuAspGluAlaTyrArgPhe 125
DB 1348 ATCGCTATCGCTACATCATGAAGAGGATGGACATGTCTTTAGATGAAGCTTACAGATT 1407
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DB 1408 GTGAAGAAAAAAGACCTACTATATCTCCAACTTCAATTTCTGGGCCAACTCTCGGAC 1467
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DB 1648 CCGGTGCATCCCGCCAGCGTCCAGCGTCCAGCGTCCAGCGTCCAGCGTCTGTAGAGGAC 1707
QY 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
DB 1708 AGCCCGCTGGTACAGCGCTCAGTGGCGTGCACCTGTCCGACAGACAGGCTGAAGACAGC 1767
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DB 2128 CACACAGCTTCTCTTTCCGCTTTCCACAGCCAGCAGCAGCTCACGAGTCTGCTGGC 2187
QY 386 LeuGlyLeuLysGlyTrpHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
DB 2188 CTGGGCTTTAAGGGCTGGCACTCGGATATCTTTGGCCCCCAGACCTTACCCCTTCCCTG 2247
QY 406 ThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
DB 2248 ACCAGCAGCTGTATTTTCCACAGAGTCTCTCACACTTCTACTCTGCTCAGCCATCTAC 2307
QY 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln 445
DB 2308 GGAGGAGTGCACGATTACTCTGCTACAGCTCAGCCAGCTGCCACCTTGGGAGGCCAA 2367
QY 446 ValTyrSerValArgArgGlnLysProSerAspArgAlaAspSerArgSerTrp 465
DB 2368 GTCTATTCTGTGCGCAGGCGGAGAACCAAGTGCAGAGCTCACTCGCGCGGAGCTGG 2427
QY 466 HisGluGluSerProPheGluLysGlnPheLysArgSerCysGlnMetGluPheGly 485

DB 2428 CATGAAGAGAGCCCTTTTGAAGACAGTTTTAAACGCAGAGCTGCCAAATGGAATTGGA 2487
QY 486 GluSerIleMetSerGluAsnArgSerArgGluGluIleuGlyLysValGlySerGlnSer 505
DB 2488 GAGAGCATCATGTTCAGAGAACAGGTCTCAGGGAAGAGCTGGGGAAGTGGGCGAGTCAGTCT 2547
QY 506 SerPheSerGlySerMetGluIleIleGluValSer 517
DB 2548 AGCTTTTGGGCAGCATGGAAATCATTTAGGTCTCC 2583
RESULT 13
US-10-377-072-25
; Sequence 25, Application US/10377072
; Publication No. US20040009501A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals Inc.
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Logan, Thomas Joseph
; APPLICANT: Glucksmann, Maria A.
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Williamson, Mark J.
; APPLICANT: Rudolph-Owen, Laura A.
; APPLICANT: Chun, Miyoung
; APPLICANT: Tsai, Fong-Ying
; TITLE OF INVENTION: NOVEL 25869, 25934, 26335, 50365, 21117,
; TITLE OF INVENTION: 38692, 46508, 16816, 16839, 49937, 49931 AND 49933 MOLECULES
; TITLE OF INVENTION: AND USES THEREFOR
; FILE REFERENCE: MPI03-0180NM
; CURRENT APPLICATION NUMBER: US/10/377,072
; CURRENT FILING DATE: 2003-02-27
; PRIOR APPLICATION NUMBER: US 09/895,860
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/215,370
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: US 09/723,806
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 60/187,455
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 09/843,297
; PRIOR FILING DATE: 2001-04-25
; PRIOR APPLICATION NUMBER: US 60/199,801
; PRIOR FILING DATE: 2000-04-26
; PRIOR APPLICATION NUMBER: US 09/861,801
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 60/205,508
; PRIOR FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: US 09/816,494
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 09/815,419
; PRIOR FILING DATE: 2001-03-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3544
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (589) ... (2586)
US-10-377-072-25
Alignment Scores:
Pred. No.: 1,02e-250 Length: 3544
Score: 2606.00 Matches: 516
Percent Similarity: 90.21% Conservative: 0
Best Local Similarity: 90.21% Mismatches: 1
Query Match: 97.68% Indels: 56
DB: 17 Gaps: 1
US-09-964-277-21 (1-517) x US-10-377-072-25 (1-3544)

QY 1 MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArg 20
 DB 869 ATGTTGGCCTCTCTCTTCAGACTGTTTCTCACTGTACTTCTGGTAAACTGGAGAAGA 928
 QY 21 AlaSerThrLeuPheThrCysLeuGln----- 29
 DB 929 GCTTCAACTCTGTTCACCTGCTTGCA-GGTGGGTTTGCTGAGTTCTCTGTTGTTTCCT 987
 QY 29 ----- 29
 DB 988 GGCCTCTGTGAAGGAAATCCACTCTAGTCCCTACTGCAATTTCTCAGCCTTGCTTACCT 1047
 QY 29 ----- 29
 DB 1048 GTTGCCCAATTTGGGCCAACCCGAATCTTCCCAATCTTTATCTTTGGCTGCCAGCAGAT 1107
 QY 30 ----- GluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsn 45
 DB 1108 GTCCTCAACAAGGAGCTGATGCAGCAGAAATGGGATTGGTTATGTGTAAATGCCAGCAAT 1167
 QY 46 ThrCysProLysProAspPheIleProGluSerHisPheLeuArgValProValAsnAsp 65
 DB 1168 ACTGTCCAAAGCCTGACTTTATCCCGAGTCTCATTTCTCGGTGTGCTGTGAATGAC 1227
 QY 66 SerPheCysGluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAla 85
 DB 1228 AGCTTTTGTGAGAAATTTTGGGTGGTGGCAATCAGTAGATTTTCATTGAGAAGCA 1287
 QY 86 LysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr 105
 DB 1288 AAGCCCTCCAAATGATGTGTCTAGTGCACTGTTTGTAGTGGGATCTCCCGCTCCGCCACC 1347
 QY 106 IleAlaIleAlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPhe 125
 DB 1348 ATCGTATCGCTACATCATGAGAGGATGGACATGCTCTTTAGATGAAGCTTACAGATTT 1407
 QY 126 ValLysGluLysArgProThrIleSerProAsnPheAsnPheLeuGlyGlnLeuLeuAsp 145
 DB 1408 GTGAAGAAANAAGACTACTATATCTCCAACTTCAATTTCTGGGCCAACTCTCTGGAC 1467
 QY 146 TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLysLeu 165
 DB 1468 TATGAGAAGAAGATTAAAGAACAGACTGGAGCATCAGGCCAAAGAGCAAACTCAAGCTG 1527
 QY 166 LeuHisLeuGluLysProAsnGluProValProAlaValSerGluGlyGlnLysSer 185
 DB 1528 CTGCACCTGGAGAAGCAAAATGAACCTGTCCCTGTCTCTCAGAGGGTGGACAGAAAGC 1587
 QY 186 GluThrProLeuSerProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArg 205
 DB 1588 GAGACGCCCTCAGTCCACCTGTGCCGACTGTCTTACCTCAGAGGCAGAGCAAGG 1647
 QY 206 ProValHisProAlaSerValProSerValProSerValGlnProSerLeuLeuGluAsp 225
 DB 1648 CCGGTGCAATCCCGCAGCGTGGCCAGGGTCCAGCGTGCAGCGTGTCTGTGTAGAGGAC 1707
 QY 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
 DB 1708 AGCCCGCTGTGACAGCGCTCAGTGGCTGCACCTGTCCGACAGACAGGCTGGAGAAGC 1767
 QY 246 AsnLysLeuLysArgSerPheSerLeuAspIleLysSerValSerTyrSerAlaSerMet 265
 DB 1768 AATAAGCTCAAGCGTTCCTTCTCTGGATATCAAAATCAGTTTCATATTTCAGCCAGCATG 1827
 QY 266 AlaAlaSerLeuHisGlyPheSerSerSerGluAspAlaLeuGluTyrTyrLysProSer 285
 DB 1828 GCAGATCTTATCATGCTTCTCTCATCAGAGATGCTTTGGAACTACAACTTC 1887
 QY 286 ThrThrLeuAspGlyThrAsnLysLeuCysGlnPheSerProValGlnGluLeuSerGlu 305
 DB 1888 ACTACTCTGGATGGACCAAGCTATGCGAGTTCTCCCTCTTCCGAACTATCGGAG 1947
 QY 306 GlnThrProGluThrSerProAspLysGluGluAlaSerIleProLysLysLeuGlnThr 325

DB 1948 CAGACTCCGAAACAGTCTCTGATAAGAGAGAACCCAGCATCCCCAAAGAACTGCAGACC 2007
 QY 326 AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerSerGly 345
 DB 2008 GCCAGGCTTCAGAACCCAGCAGAGCGATTGATTCGGTCAGAACCCAGCAGATGCC 2067
 QY 346 ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAspAsnTyr 365
 DB 2068 ACCGCCAGAGGTCCCTTTTATCTCCACTGCATCGAAGTGGAGCGTGGAGCAATTAC 2127
 QY 366 HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly 385
 DB 2128 CACACCAAGTTCCTTTTTCGGCTTTCACCCAGCAGACACCTCACGAAGTCTGCTGCC 2187
 QY 386 LeuGlyLeuLysGlyTyrHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
 DB 2188 CTGGCCCTTAAGGCTGGCATCTCGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTG 2247
 QY 406 ThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
 DB 2248 ACCAGCAGTGGTATTTTCCACAGAGTCTCTCACACTTCTACTCTGCTCTCAGCCATCTAC 2307
 QY 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln 445
 DB 2308 GGAGCAGTGGCAGTTACTCTGCTTACAGCTGCAGCCAGCTGCCACCTTGGGAGACCAA 2367
 QY 446 ValTyrSerValArgArgGlnLysProSerAspArgAlaAspSerArgSerTrp 465
 DB 2368 GTCTATTCTGTGCGCAGCGCGCAGAACCAAGTACAGAGCTGACTCCGGCGGAGCTGG 2427
 QY 466 HisGluGluSerProPheGluLysGlnPheLysArgArgSerCysGlnMetGluPheGly 485
 DB 2428 CATGAAGAGAGCCCTTTTGAAGAGCAGTTTAAACGACAGAGCTGCCAAATGGAAATTGGA 2487
 QY 486 GluSerIleMetSerGluAsnArgSerArgGluGluLeuGlyLysValGlySerGlnSer 505
 DB 2488 GAGAGCATCATGTCCAGAGAACAGGTCCACGGGAAGAGCTGGGGAAAGTGGGCGAGTCAGTCT 2547
 QY 506 SerPheSerGlySerMetGluIleGluValSer 517
 DB 2548 AGCTTTTTCGGGAGCATGTGAAATCATTTAGAGTCTCC 2583

RESULT 14
 US-10-377-072-25
 ; Sequence 25, Application US/10377072
 ; Publication No. US20040157221A9
 ; GENERAL INFORMATION:
 ; APPLICANT: Millennium Pharmaceuticals Inc.
 ; APPLICANT: Curtis, Rory A.J.
 ; APPLICANT: Logan, Thomas Joseph
 ; APPLICANT: Glucksmann, Maria A.
 ; APPLICANT: Meyers, Rachel E.
 ; APPLICANT: Williamson, Mark J.
 ; APPLICANT: Rudolph-Owen, Laura A.
 ; APPLICANT: Chun, Miyoung
 ; APPLICANT: Tsai, Fong-Ying
 ; TITLE OF INVENTION: NOVEL 25869, 25934, 26335, 50365, 21117,
 ; 38692, 46508, 16816, 16839, 49937, 49931 AND 49933 MOLECULES
 ; FILE REFERENCE: MPI03-0180NMIM
 ; CURRENT APPLICATION NUMBER: US/10/377,072
 ; CURRENT FILING DATE: 2003-02-27
 ; PRIOR APPLICATION NUMBER: US 09/895,860
 ; PRIOR FILING DATE: 2001-06-29
 ; PRIOR APPLICATION NUMBER: US 60/215,370
 ; PRIOR FILING DATE: 2000-06-29
 ; PRIOR APPLICATION NUMBER: US 09/723,806
 ; PRIOR FILING DATE: 2000-11-28
 ; PRIOR APPLICATION NUMBER: US 60/187,455
 ; PRIOR FILING DATE: 2000-03-07
 ; PRIOR APPLICATION NUMBER: US 09/843,297
 ; PRIOR FILING DATE: 2001-04-25

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; PRIOR APPLICATION NUMBER: US 60/199,801
; PRIOR FILING DATE: 2000-04-26
; PRIOR APPLICATION NUMBER: US 09/861,801
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 60/205,508
; PRIOR FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: US 09/816,494
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 09/815,419
; PRIOR FILING DATE: 2001-03-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3544
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (589)...(2586)
US-10-377-072-25

Alignment Scores:
Pred. No.: 1,02e-250 Length: 3544
Score: 2606.00 Matches: 516
Percent Similarity: 90.21% Conservative: 0
Best Local Similarity: 90.21% Mismatches: 1
Query Match: 97.68% Indels: 56
DB: 19 Gaps: 1

US-09-964-277-21 (1-517) x US-10-377-072-25 (1-3544)

QY 1 MetLeuProLeuSerLeuGlnThrValPheSerLeuTyrPheTrpValAsnTrpArgArg 20
Db 869 ATGTTGGCTCTCTCTTTCAGACTGTTTCTCACTGTACTTCTGGGTAAACTGGAGAAGA 928
QY 21 AlaSerThrLeuPheThrCysLeuGln----- 29
Db 929 GCTTCAACTCTGTTCACTCGCTTGCA-GGTGGGTTTGTGTAGTTCCTCGTTGTTCCCT 987
QY 29 ----- 29
Db 988 GGCCTCTGTGAAGAAATCCACTCTAGTCCCTACTGCTGCTTCTCAGCCTTGCTTACCT 1047
QY 29 ----- 29
Db 1048 GTTGCCAACTTTGGGCCAACCCGAAATCTTCCCAATCTTTATCTTTGGCTGCCAGCGAGAT 1107
QY 30 -----GluLeuMetGlnGlnAsnGlyIleGlyTyrValLeuAsnAlaSerAsn 45
Db 1108 GTTCTCAACAAGAGCTGATGAGCAGAAATGGGATTTGTTATGTTAAATGCCAGCAAT 1167
QY 46 ThrCysProLysProAspPheIleProGluSerHisPheLeuArgValProValAsnAsp 65
Db 1168 ACCTGTCCAAAGCCTGACTTTATCCCGAGTCTCTATTTCTCGGTGGCTGTGATGAC 1227
QY 66 SerPheCysGluLysIleLeuProTrpLeuAspLysSerValAspPheIleGluLysAla 85
Db 1228 AGCTTTTGTGAGAAAATTTGGCGTGGTGGACAAATCAGTAGATTTTCATTGAGAAGCA 1287
QY 86 LysAlaSerAsnGlyCysValLeuValHisCysLeuAlaGlyIleSerArgSerAlaThr 105
Db 1288 NAAAGCCTCAATGGATGTTCTTAGTGCACTGTTTAGCTGGGATCTCCCGCTCCCGCACC 1347
QY 106 IleAlaIleAlaTyrIleMetLysArgMetAspMetSerLeuAspGluAlaTyrArgPhe 125
Db 1348 ATCGCTATCGCTACATCATGAGAGATGGACATGCTCTTTAGATGAGACTTACAGATT 1407
QY 126 ValLysGluLysArgProThrIleSerProAsnPheAsnPheLeuGlnLeuLeuAsp 145
Db 1408 GTGAAAGAAAAAGACCTACTATATCTCCAAACTTCAATTTTCTGGGCCAACTCTCTGGAC 1467
QY 146 TyrGluLysLysIleLysAsnGlnThrGlyAlaSerGlyProLysSerLysLeuLysLeu 165
Db 1468 TATGAGAGAGAGATTAAAGAACCACTGGAGCATCAGGGCCAAAGAGCAAACTCAAGCTG 1527
QY 166 LeuHisLeuGluLysProAsnGluProValProAlaValSerGluGlyGlyGlnLysSer 185
Db 1528 CTGCACCTGGAGAAGCAAAATGAACCTGTCCCTGCTCTCAGAGGGTGGACAGAAAAGC 1587
QY 186 GluThrProLeuSerProProCysAlaAspSerAlaThrSerGluAlaAlaGlyGlnArg 205
Db 1588 GAGAGCGCCCTCAGTCACCTGTGCGGACTCTCTACCTCAGAGGCGAGCAAGG 1647
QY 206 ProValHisProAlaSerValProSerValGlnProSerLeuLeuGluAsp 225
Db 1648 CCCGTGCATCCCGCAGCGTGGCCAGCGTGGCCAGCGTGGCCGCTCGCTGTAGAGGAC 1707
QY 226 SerProLeuValGlnAlaLeuSerGlyLeuHisLeuSerAlaAspArgLeuGluAspSer 245
Db 1708 AGCCCGCTGGTACAGGGCGCTCAGTGGGCTGCACCTGTCGCGACAGAGCTGGAAGACAGC 1767
QY 246 AsnLysLeuLysArgSerPheSerLeuAspIleLysSerValSerTyrSerAlaSerMet 265
Db 1768 AATAAGCTCAAGCGTTCCTTCTCTCGATATCAAAATCAGTTTCATATTCAGCCAGCAATG 1827
QY 266 AlaAlaSerLeuHisGlyPheSerSerGluAspAlaLeuGluTyrTyrLysProSer 285
Db 1828 GCAGCATCCTTACATGGCTTCTCTCATCAGAGATGCTTTGGATATACTACAAACCTTCC 1887
QY 286 ThrThrLeuAspGlyThrAsnLysLeuCysGlnPheSerProValGlnGlnLeuSerGlu 305
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QY 306 GlnThrProGluThrSerProAspLysGluLalaSerIleProLysLysLeuGlnThr 325
Db 1948 CAGACTCCGAAACCACTGCTGATAGAGAGAAAGCCAGCATCCCCAAGAAAGCTGCAGACC 2007
QY 326 AlaArgProSerAspSerGlnSerLysArgLeuHisSerValArgThrSerSerSerGly 345
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QY 346 ThrAlaGlnArgSerLeuLeuSerProLeuHisArgSerGlySerValGluAspAsnTyr 365
Db 2068 ACCGCCAGAGGTCCCTTTTATCTCCACTGATCGAAGTGGGAGCGTGGAGGACAAATTAC 2127
QY 366 HisThrSerPheLeuPheGlyLeuSerThrSerGlnGlnHisLeuThrLysSerAlaGly 385
Db 2128 CACACCAAGTCTTCCTTTTGGGCTTTTCCACAGCCAGCAGACACCTCACGAAGTCTGCTGC 2187
QY 386 LeuGlyLeuLysGlyTyrHisSerAspIleLeuAlaProGlnThrSerThrProSerLeu 405
Db 2188 CTGGGCTTAAAGGCTGGCACTCGGATATCTTGGCCCCCAGACCTCTACCCCTTCCCTG 2247
QY 406 ThrSerSerTrpTyrPheAlaThrGluSerSerHisPheTyrSerAlaSerAlaIleTyr 425
Db 2248 ACCAGCAGCTGGTATTTTGGCCACAGAGTCTCACACTTCTACTCTGCTCAGCCATCTAC 2307
QY 426 GlyGlySerAlaSerTyrSerAlaTyrSerCysSerGlnLeuProThrCysGlyAspGln 445
Db 2308 GGAGCGAGTGGCAGTTACTCTGCTTACAGCTGCGAGCCAGCTGCCACCTTGGGAGACCAC 2367
QY 446 ValTyrSerValArgArgGlnLysProSerAspArgAlaAspSerArgArgSerTrp 465
Db 2368 GTCTATTCTGTGCGAGCGGCAGAACCAAGTGCAGAGCTGACTCGCGCGGAGCTGG 2427
QY 466 HisGluGluSerProPheGluLysGlnPheLysArgArgSerCysGlnMetGluPheGly 485
Db 2428 CATGAAGAGAGCCCTTTGAAAAGCAGTTTAAACGCGAGAAGCTGCCAAATGGAATTTGGA 2487
QY 486 GluSerIleMetSerGluAsnArgSerArgGluLeuGlyLysValGlySerGlnSer 505
Db 2488 GAGAGCATCATGTTCAGAGAACAGGTTCAGGGAAGAGCTGGGGAAAGTGGGAGTCACTG 2547
QY 506 SerPheSerGlySerMetGluIleLeuValSer 517
Db 506 SerPheSerGlySerMetGluIleLeuValSer 517
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Db	2591	GAGAGCATCATGTCTCAGAGAACAGGTCCACGGGAAGAGCTGGGAAAGTGGGCAGTCAGTCT	2650
Qy	506	SerPheSerGlySerMetGluIleIleGluValSer	517
Db	2651	AGCTTTTCGGGCAGCATGGAAATCATTGAGGTCCTCC	2686

Search completed: September 1, 2005, 14:43:35
Job time : 989 secs